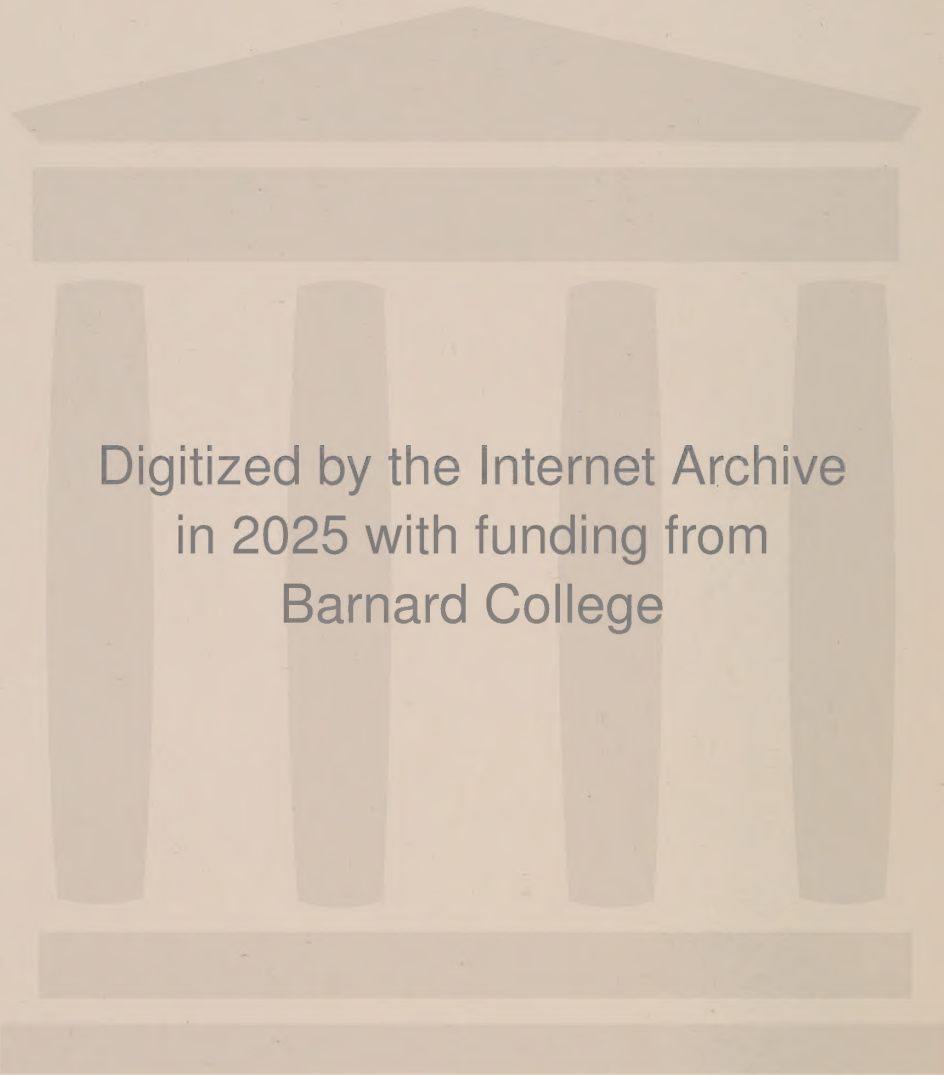


# BARNARD







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# BARNARD

The Undergraduate College of Liberal Arts for Women of Columbia University

## 1984-1985 CATALOGUE



Barnard College  
3009 Broadway  
New York, N.Y. 10027-6598

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Barnard Admissions Office:

(212) 280-5262  
(212) 280-2014

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1984

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29	30						27	28	29	30	31			24	25	26	27	28	29	30	29	30	31							



# College Calendar 1984-85

## AUTUMN TERM—NINETY-SIXTH YEAR

**Registration** Sept. 4,5,6  
(Tu,W,Th)

Language Placement  
Examinations Sept. 5 (W)

**Classes begin 9:00 a.m.** Sept. 6 (Th)

**Last day to submit work  
for courses in which  
grades of I were given in  
the Autumn Term 1983  
and Spring Term 1984** Sept. 6 (Th)

**Deferred examinations for  
students absent from May  
1984 final examinations in  
Barnard courses. Deferred  
examinations for C,F,G,W,  
and other Columbia  
courses must be taken  
before the end of the  
semester.** Sept. 5,7,10  
(W,F,M)

**Program filing  
Last day to file Autumn  
Term programs 5:00 p.m.** Sept. 14 (F)

**Last day to add a course** Sept. 14 (F)

**Last day to file Spring  
Term Senior Scholar  
applications** Oct. 12 (F)

**Last day to file diploma  
name cards for the degree  
in January 1985** Oct. 12 (F)

**MIDTERM DATE** Oct. 23 (Tu)

**Award of October degrees** Oct. 24 (W)

**Required meetings for  
planning programs** Nov. 1 (Th)

**Academic Holiday** Nov. 5 (M)

**Election Day Holiday** Nov. 6 (Tu)

**Last day to drop a course** Nov. 15 (Th)

**Major examinations for  
January graduates** Nov. 14-16  
(W-F)

**Last day to file tentative  
Spring Term programs** Nov. 20 (Tu)  
**Thanksgiving Holidays** Nov. 22-25  
(Th-Sun)

**Last day to file requests  
for pass-fail grades** Dec. 5 (W)

**Optional reading period** Dec. 7-12  
(F-W)

**Required reading day** Dec. 13 (Th)

**MIDYEAR EXAMINATIONS**  
**begin** Dec. 14 (F)

**Last day for payment of  
bill for Spring Term** Dec. 17 (M)

**Last day for refund of  
Spring Term Deposit** Dec. 17 (M)

**Autumn Term ends** Dec. 21 (F)

**Winter recess** Dec. 22-Jan.  
20, 1985  
(Sat-Sun)

## SPRING TERM 1985

**Registration** Jan. 17,18,21  
(Th,F,M)

**Last day to file  
application for deferred  
examinations in Barnard  
courses** Jan. 18 (F)

**Last day to submit to  
Office of the Registrar  
work from Autumn Term  
1984 for removal of I** Jan. 18 (F)

**Classes begin 9:00 a.m.** Jan. 21 (M)

Language Placement  
Examinations Jan. 21 (M)

**Award of January degrees** Jan. 23 (W)

**Deferred examinations for  
students absent from  
December 1984 final exami-  
nations in Barnard courses.  
Deferred examinations for  
C,F,G,W and other Colum-  
bia courses must be taken  
before the end of the  
semester.** Jan. 23,24,25  
(W,Th,F)



<b>Program filing</b>	
<b>Last day to file programs</b> <b>5:00 p.m.</b>	<b>Jan. 30 (W)</b>
<b>Last day to add a course</b>	<b>Jan. 30 (W)</b>
<b>Last day to file diploma</b> <b>name cards for the degree</b> <b>in May 1985</b>	<b>Feb. 8 (F)</b>
<b>Last day to submit</b> <b>1985-86 Senior Scholar</b> <b>applications</b>	<b>Feb. 26 (Tu)</b>
<b>MIDTERM DATE</b>	<b>Mar. 7 (Th)</b>
<b>Spring Holidays</b>	<b>Mar. 9-17</b> <b>(Sat-Sun)</b>
<b>Last day to drop a course</b>	<b>Mar. 21 (Th)</b>
<b>Major examinations for</b> <b>May and October graduates</b>	<b>April 10-12</b> <b>(W-F)</b>
<b>Required meetings for plan-</b> <b>ning programs</b>	<b>April 11 (Th)</b>
<b>Last date for sophomores</b> <b>to declare major choices</b>	<b>April 12 (F)</b>
<b>Last day to file applica-</b> <b>tion for 1985-86 financial</b> <b>aid</b>	<b>April 17 (W)</b>
<b>Last day to file request for</b> <b>pass-fail grades</b>	<b>April 24 (W)</b>
<b>Phi Beta Kappa-Honors</b> <b>Convocation</b>	<b>April 25 (Th)</b>
<b>Optional Reading period</b>	<b>April 26-May 1</b> <b>(F-W)</b>
<b>Program filing</b>	
<b>Last day to file tentative</b> <b>Autumn Term programs</b>	<b>April 30 (Tu)</b>
<b>Last day to file diploma</b> <b>cards for the degree in</b> <b>October 1985</b>	<b>April 30 (Tu)</b>
<b>Required reading day</b>	<b>May 2 (Th)</b>

<b>FINAL EXAMINATIONS</b> <b>begin</b>	<b>May 3 (F)</b>
<b>Spring Term ends</b>	<b>May 10 (F)</b>
<b>Baccalaureate Service</b>	<b>May 12 (Sun)</b>
<b>Conferring of Degrees</b>	<b>May 15 (W)</b>
<b>Last day to file applica-</b> <b>tion for deferred examina-</b> <b>tions in Barnard courses</b>	<b>May 24 (F)</b>
<b>Last day to submit to</b> <b>Office of the Registrar</b> <b>work from Spring Term</b> <b>1985 for removal of I</b>	<b>June 7 (F)</b>
<b>Registration for</b> <b>Autumn Term</b>	<b>Sept. 3,4,5</b> <b>(Tu,W,Th)</b>
<b>Classes begin 9:00 a.m.</b>	<b>Sept. 5 (Th)</b>







# I. The College

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to New York City. Barnard is committed to the fundamental values of the liberal arts and sciences, and our curriculum reflects that commitment. The cultural and social resources of New York and the intellectual resources of Columbia University are as much a part of an undergraduate education at Barnard as the commitment to learning and scholarship that is everywhere apparent in the College environment.

Because the liberal education offered at Barnard is rich, admission to the College is competitive. For those who are admitted, four years at the College presents an extensive array of opportunities both to contribute to the community and to draw from it, and the College seeks therefore to admit diversified groups of students who will benefit to the fullest extent from the Barnard experience.

## BARNARD'S HISTORY

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women.

Barnard College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A. P. Barnard, that young women share in the opportunity for higher education. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October, 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 was included in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.



# The College

## BARNARD TODAY

Today Barnard has a faculty of over 225 men and women, outstanding scholars whose primary concern is the education of undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to 2,250; since 1893 Columbia University has awarded its degree to 23,500 Barnard students. The original gifts of support have expanded to the current endowment funds of \$33,666,000.

In 1982, Barnard College and Columbia University amended and extended their longstanding agreement for cooperation between the two institutions. Barnard is an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, as well as trustees, endowment, and physical plant. At the same time, Barnard and Columbia share resources, and Barnard and Columbia students thereby have open access to the courses offered by either institution and to each other's faculty, libraries and facilities. Barnard and Columbia students also share in extracurricular activities and daily life.

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages extensive use of its vast metropolitan resources.

# The College

## THE LIBERAL ARTS CURRICULUM

A liberal arts education at Barnard is composed of a broad distribution of course work with intensive study in a departmental or disciplinary major.

As befits a College of Barnard's quality, the Faculty is regularly engaged in considering and reconsidering all aspects of the curriculum. In 1982 this process resulted in the adoption of a new set of degree requirements—a program of courses that the Faculty believes will offer stimulating and enriching educational opportunities for all students, while at the same time permitting each to tailor the manner in which the requirements are fulfilled to suit her own propensities, strengths, and interests. The new degree requirements will apply to students who begin their studies at Barnard in the fall of 1984 and thereafter; they are fully described on page 31. Degree requirements for those admitted prior to 1984 are listed on page 34.

Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the areas of concentration and other phases of the college work. Twenty-seven departments offer major programs and eight interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the Faculty.



## THE FACULTY

The Barnard faculty consists of scholar-teachers who have long recognized that their teaching depends upon their scholarship and grows out of it. The range of the Barnard curriculum fairly reflects this understanding, both in its concentration upon the traditional disciplines of learning and in its innovative interdisciplinary programs. The scholarly commitment of the Barnard faculty is constantly shown, too, in the variety and quality of its many research projects, its books and articles in learned journals, its participation in academic societies, and its many different kinds of publication and performance. But its abiding achievement is a constant demonstration in the classroom of the binding ties of teaching and scholarship to each other which simply will not accept the possibility of any serious conflict between them. For in these central functions, Barnard's scholar-teachers honor the enduring values of their profession.

## SPECIAL CONCERNS ABOUT THE EDUCATION OF WOMEN

The mission of Barnard College is the provision of undergraduate education of the highest quality in an environment that is particularly sensitive to the intellectual and personal needs of its women students. While Barnard College students enjoy a range of curricular and extra-curricular opportunities with Columbia University, at Barnard they benefit from an atmosphere in which women currently comprise approximately 50% of the tenured faculty and are well-represented on all levels of the administration. These women serve as important role models for our students, who in turn are encouraged to assume positions of leadership while on campus that equip them for similar roles later in life.

Acknowledging today's complex and changing climate for women, the Barnard Women's Center exists to offer a wide range of programs and services, both academic and non-academic. These include an extensive resource collection of books, articles, and periodicals, conferences, speakers, films, and poetry readings. The Center strives to provide continuity and links between students and alumnae, and between the College and women on and off the campus.

## SPECIAL EDUCATIONAL OPPORTUNITIES

Barnard's location in America's largest and most diverse city and its affiliation with one of the nation's most distinguished universities make it possible for the College to offer some truly unusual educational opportunities. Some of these are formal programs, while others are resources tapped by students on an individual basis. The vast curricular resources of Columbia University are easily available to the student—including such academic areas as non-Western cultures and literatures, an extensive number of exotic languages, international studies, advanced scientific and technological studies, etc. Schools on Morningside Heights with which Barnard has formal programmatic relationships—each of which is described in more detail elsewhere in this catalogue—include Manhattan School of Music, the Jewish Theological Seminary of America, Teacher's College, and Columbia's Graduate School of Architecture and Planning, School of Law, and School of Engineering. Many other academic organizations—both within and outside the University—offer opportunities for research, study, studio experience, career internships, or other relationships, depending on the special needs and interests of the individual student.

## THE CAMPUS

The Campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.



# The College

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Academic Computing Center on the first floor, the reference area, periodicals, microforms, and open book stacks on the second floor, and on the third floor audiovisual facilities, Barnard archives, and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including 600, 616, and 620 West 116th Street, three apartment buildings at Plimpton Hall, completed in 1968; and a newly-renovated building at 49 Claremont Avenue.

Barnard Camp is a 20-acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

Columbia University is directly across Broadway from the Barnard campus.

## STUDENT LIFE

Barnard's student population is cosmopolitan in nature. While one-third of the students have families within commuting distance, others come from nearly every state and some twenty-five foreign countries. They represent diversity in background and training, and a mingling of economic, regional, and cultural strains that finds expression in the life of the campus. Every student belongs to a "house," a group that includes faculty and staff associates, commuting students, and residents. Each house plans its own informal gatherings, continuing programs, and special events. The Thursday Noon Meeting at Barnard provides a campus-wide weekly forum for discussion of contemporary issues, and periodic lecture and conference series bring world-renown scholars to the College.

All Barnard students are members of the Student Government Association, which provides general leadership and advocacy for student organizations. Students, faculty, and administrators serve on college committees, sharing responsibility for policy recommendations in the areas of curriculum, housing, financial aid, orientation, and the library. The Student Government Association sponsors many extracurricular activities: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Student artists with a diversity of talents and interests collaborate to produce Winter and Spring Festivals.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities throughout the year for students, faculty, and staff to experience together the cultural, political, and social life of the city.



# The College

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life. A Judicial Council of undergraduates, faculty, and staff, recommends disciplinary action for non-academic offenses.

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors nine varsity intercollegiate teams including Archery, Basketball, Cross Country, Fencing, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the other undergraduate divisions of Columbia University have the opportunity to compete on all nine university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition. For students interested in less competitive programs, the Recreational Athletic Association (RAA) sponsors volleyball and basketball intramurals, sports clubs, recreational swim, open gym time, and special events.

Approximately ninety percent of all those eligible to continue in the College are enrolled each year, and another five percent are on leave for study, travel, or internships. Because transfer students are admitted with sophomore and junior standing, graduating classes are larger than freshman classes.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 45 to 50 % of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools (10-12 %), law schools (10-12 %), business schools (1-2 %), and education schools (2-3 %). The rest, with the exception of fewer than 1 %, obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.



Barnard President  
Ellen V. Futter







# II. Admission

## Selection of Candidates

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and College Board scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard also seeks students from diverse educational and cultural backgrounds and from many geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or handicap.

## Freshman Application Procedures

Students are admitted to the freshman class in September and, in limited numbers, in January. They must be at least fifteen years of age.

Application for admission to the freshman class should be made by February 1 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions.

A nonrefundable fee of \$30 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

## Secondary School Preparation

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

## College Boards

Barnard requires all freshman candidates to take the College Board's Scholastic Aptitude Test (SAT) and three Achievement Tests, one of which must be in English composition or literature. These tests should be taken by January of the senior year. As early as possible, candidates should write **directly** to the College Board, Box 592, Princeton, New Jersey 08540 for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the tests must be received by the CB well in advance of the test.

**It is the student's responsibility to direct the College Board to send official test scores to the Office of Admissions.** The Barnard College code for this purpose is 2038.

## Recommendations

Another important part of the application is the submission of two recommendations, one from the high school counselor and the other from a teacher of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.



# Admission

## Interviews

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions (212-280-2014). Appointments are scheduled Monday through Friday from nine-thirty to twelve in the mornings and from two to four in the afternoons, and on Saturday mornings. For those who are unable to arrange interviews at the College, appointments can be made with Barnard Area Representatives whose names are listed on pages 283–289 or with the College Admissions Officers who visit major metropolitan areas throughout the country each fall.

## SPECIAL APPLICATION PROCEDURES

### Early Decision

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the *Fall Early Decision Plan*, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the *Winter Early Decision Plan*, a candidate should submit a completed application, with all supporting credentials, by January 15 for notification of the Committee's decision no later than February 15. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the freshman class, an Early Decision student must submit a nonrefundable enrollment deposit following her decision to enroll. This deposit is applied toward total annual tuition and fees for the freshman year.

The Winter Early Decision Plan recognizes that some candidates may decide on their college preference later than others. The same criteria are used in the evaluation of applicants under both plans. The Committee on Admissions may choose to postpone decision on any EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year.

### Deferred Enrollment

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest.

### Foreign Students

Each year Barnard enrolls a number of qualified foreign students. These students are expected to follow the same application procedures and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement Tests. Foreign students who are considering Barnard are encouraged to communicate with the Director of Admissions well in advance of entrance so that the College may assist them with their plans.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

After enrolling at Barnard, foreign students receive assistance with academic placement from the Foreign Student Adviser in the Office of the Dean of Studies.



Transfer Students

Barnard welcomes transfer students in the sophomore and junior classes each year. Applications for admission with advanced standing are considered beginning on **March 1** for admission in September and on **November 1** for admission in January.

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT's or, if appropriate, the TOEFL, a recommendation from the secondary school counselor and from the college dean or adviser, an official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked.

A strong record of not less than one year's work at an accredited college, foreign university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 20.

Visiting Students

Qualified students who are degree candidates at other colleges may apply for admission as visiting students (Other College Degree Candidates) for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

Readmission

Barnard students who have not been registered for one or two terms may return without applying for readmission by notifying the Dean of Studies. Students who have not been registered for more than two consecutive semesters must apply for readmission to the Director of Admissions by **November 1** for the Spring term and by **May 1** for the Autumn term. A nonrefundable fee of \$30 must accompany each application.

Resumed Education Program

Former Barnard students who wish to return to the College after an absence of at least five years to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Director of Advising and Services for Resumed Education Students in the Office of the Dean of Studies.

Admission with Advanced Placement

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) can be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	
Biological Sciences	4 or 5	3–6 pts.	exemption (with review of lab notes)
Chemistry	4 or 5	3–8 pts.	exemption (with review of lab notes)
English	4 or 5	3 pts.	exemption
Foreign languages	5	6 pts.	exemption
	4	3 pts.	exemption
History	5	6 pts.	
	4	3 pts.	
Mathematics	4 or 5	Calculus A-B: 3 pts. and placement in IIA or B;	
	3	3 pts. if IIA or B passed.	
	4 or 5	Calculus B-C: 6 pts. and placement in IIIA, B, or C;	
	3	3 pts. if IIA or B passed; 6 pts. if IIIA or B passed.	
Music	4 or 5	3 pts.	
Physics	4 or 5	3–6 pts.	exemption (with review of lab notes)



# III. Financial Information

## Annual Tuition and Fees

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

## Schedule of Annual Tuition and Fees

The following tuition and fees are required from all students for the Academic Year 1984-1985 and are subject to change without prior notice.

Tuition:	
Full program (12-18 points)	\$9,320
Partial program (1-11½ points)	311 per point
Excess program (over 18 points)	311 per point
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	

Comprehensive Fee:	
Health Service (see page 29)	\$204.00
Accident and Sickness Insurance (see page 30)	98.00
Undergraduate Association Student Activity Fee	76.00
	<hr/>
	\$378.00

The following fees are required from all students occupying college housing facilities for the Academic Year 1984-1985.

Residence Charges	
Brooks, Hewitt and Reid Halls (Board required—see schedule below)	
All other college housing (see schedule below)	
Single occupancy	\$2,888.00
Multiple occupancy	2,580.00



# Financial Information

## **Board Charges**—Required of all those living in Brooks, Hewitt or Reid

19 meals per week—minimum requirement of BHR freshmen	\$1,800.00
15 meals per week—minimum requirement of freshmen in other dorms	1,610.00
10 meals per week	1,490.00

## **Other fees—required if applicable**

Application for admission	30
Registration in absentia (per semester)	75
Physical education—part-time students (per course)	311
Orientation fee—All Freshmen and Transfers entering in the Autumn Term	75
Senior fee—All graduating seniors	90
Laboratory fees (per laboratory course)	
Biological Sciences	30
Chemistry—General	28
Chemistry—Other	35
Italian Film	20
Psychology	15
Art History—Autumn	5
Art History—Spring	30

## **Payment of charges and fees**

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn Term tuition is due August 1, for returning students, August 15th, for freshmen, and September 1st for transfers. The Spring Term tuition is due by December 17. Payments received after these dates are subject to a late processing fee of \$50. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes the late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 must pay the balance due (one-half of the annual charges and fees) by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and administration of examinations are not available to any student who is delinquent in the payment of her College bills. When bills are **not** paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College. College costs include annual tuition and fees, residence charges (if any), board charges, fines due the libraries and the Columbia Bookstore, assessments for room damage, and other charges that might be incurred throughout the College community.

**All charges and fees are subject to change at any time at the discretion of the Board of Trustees**

Checks or money orders in payment of tuition and fees must be in U.S. funds (at a U.S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.



# Financial Information

## Deposits

**All students.** To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a deposit of \$200 toward annual tuition and fees on or before May 15. An applicant for admission will be billed for the deposit at the time she accepts admission to the College. If the Bursar is notified by July 1 that a student does not plan to return to Barnard for the academic year 1985-1986, the entire deposit of \$200 will be refunded.

**Students in Residence.** New students who have been offered space must submit a deposit of \$200 by May 15. The entire \$200 deposit will be applied toward the cost of the room. If the Bursar is notified of a cancellation of the room request by July 1, \$100 will be refunded (\$100 is non-refundable upon receipt). All returning "resident" students must pay the \$200 room deposit in person prior to the room lottery held in March.

## Deferred Payment

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in the Tuition Plan of New Hampshire, the School-Chex program offered by Irving Trust, New York, the new insured tuition plan offered by Richard C. Knight and the payment plan of Academic Management Services Inc. Information can be obtained from the Barnard Bursar.

## Adjustment of fees and refunds

**For changing program of study.** If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program is made by September 14 (last day of program filing) in the Autumn Term and by January 30 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

## Financial Aid

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin or handicap.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e. gifts, endowment, and general income, Barnard participates in the following Federal programs: the Pell Grant program, the Supplemental Educational Opportunity Grant program, the National Direct Student Loan program, the Federally Guaranteed Student Loan program, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks and insurance companies.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, Barnard College Financial Aid Policies and Procedures, available from the Office of Financial Aid.



## IV. College Life

Barnard students soon discover that their classmates may also be counted among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents from nearly every state and some twenty-five foreign countries as well as those who live within commuting distance. Diversity is one generalization that can be safely made about Barnard students, and a mingling of economic, regional, ethnic, and cultural groups is evident in campus life.

### STUDENT GOVERNMENT AND ORGANIZATIONS

Since the early seventies the structure of Barnard's student government has undergone fundamental revision, culminating in the development of College Committees on which students, faculty, and administrators serve, and which recommend policy and procedural changes in the areas of curriculum, housing, financial aid, college activities, athletics, and commencement.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, which include the Pottery Co-op, Barnard Organization of Black Women, Société Française, Commuter Action Coalition, and Women in Health Careers, for example, are funded by the assessment of a student activities fee. The student newspaper, **Barnard Bulletin**, is published weekly and the **Barnard Literary Magazine** is an annual publication. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, ethnic food, and pottery and plant sales. Theatre-Goers Guild offers students the opportunity to attend professional dance, theatre, and opera in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lecture series, and performances during the school year.

Cooperation between Barnard and Columbia groups is common. Many activities such as the University's chorus, orchestra, radio station, and community service programs enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia campus in Earl Hall encompass every faith and are open to all students. For more complete information, students should consult "A Guide to Barnard," the student handbook, and inquire at either the College Activities Office or the Undergraduate Association office in McIntosh Center.

The Recreational Athletics Association sponsors many activities including intramurals, sports week, and special events. The Intercollegiate Athletics program is operated in cooperation with Columbia University as a consortium in NCAA Division I and includes varsity teams in archery, basketball, cross country, fencing, indoor and outdoor track and field, swimming and diving, tennis, and volleyball.



# College Life

Students have excellent facilities available for recreation and intercollegiate team practice and competition. Barnard facilities include a snack bar, lounge, music practice rooms, pottery studio, dark room, and bowling alleys in McIntosh Center; swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall; and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center, opened in 1974, includes the Levien Gymnasium with a seating capacity of 3400; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan. In the Spring of 1983, the University began a major renovation of the complex with plans calling for a new 20,000-seat stadium, which will include an eight-lane all-weather, NCAA-regulation running track, and renovation and realignment of practice fields. Existing facilities at Baker Field include seven composition tennis courts and a modern tennis clubhouse; facilities for crew; and a spacious field house.

About thirty-five miles from New York, Barnard maintains a twenty-acre camp and lodge, Holly House, for both recreational and educational purposes. For additional information and fees, contact the Holly House Secretary, Alumnae Office, 221 Milbank Hall.

## STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board which has a membership of students and faculty members. A more complete explanation of the system may be found in the student handbook, "A Guide to Barnard." A Judicial Council of undergraduates, faculty, and staff recommends disciplinary action for nonacademic offenses.

Enrollment in the College, award of academic credit, and conferring of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and administration and in College Committees.

Each student who registers at Barnard agrees to maintain the Honor Code which provides that she will not ask for, give, or receive help in examinations or quizzes, or present oral or written work that is not entirely her own. Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct on the University campus and in the College residence facilities are recommended by student, faculty, and administrative committees to the Vice President for Student Affairs, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in "A Guide to Barnard," and all decisions are subject to review and final disposition by the President.

## HOUSING

Barnard strives to maintain as diversified a housing program as possible, providing several options for students. These options include traditional dormitories, suite arrangements, and apartments in College-owned buildings adjacent to the campus. In a cooperative exchange with Columbia College about 240 spaces are available for those who choose co-educational arrangements. Apartments have also been secured in a building off-campus which meets the standards for College-operated residences. The College has residence facilities for approximately two-thirds of the student population. In addition, about 15% more of the student body live in independent housing they maintain in the campus vicinity. Beginning in 1982, the College has offered all incoming freshmen the opportunity to elect to live in College-provided housing. Policies regarding eligibility for housing and manner of assignments are formulated by a College Housing and Campus Environment Committee with a membership of students, faculty, and administrators.



## Eligibility

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies.
2. A student is classified as a “resident” if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. Any student may live off-campus regardless of rank. A permission form signed by the parent or legal guardian must be on file in the Office of Residential Life for any student under 18 years of age who wishes to live off-campus but not at home. Resident students who choose to withdraw from College housing lose their class priority in room drawing.
4. A “commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for College-assigned housing when they enter as freshmen, and thereafter as space is available. Students may consult an off-campus housing registry for help in obtaining accommodations near the College. Some dormitory rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.
5. A student is responsible for reporting any change in permanent address to the Registrar of the College, and to the Office of Residential Life.

## Request for Resident Status

Discretionary decisions and appeals regarding resident status may be reviewed by an Appeals Committee, whose decisions are final and binding. Requests for housing from readmitted students will be acted upon by the Dean of Student Life.

## Assignments

Returning upperclass students are assigned rooms in College residences on the basis of a lottery and room drawing. Incoming freshmen, readmitted upperclass students, and transfer students are assigned rooms by the Office of Residential Life.

## Requirements

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing” which are given to students selecting College housing and which must be signed by them before they may accept rooms.

## Housing Units

The College provides in its residence halls supervision under the direction of the Office of Residential Life. This includes resident directors, graduate and undergraduate student assistants, twenty-four hour desk attendant coverage, and regular security guard patrols.

**Brooks, Hewitt, and Reid Halls** or “B-H-R” at the south end of the campus, are operated as a single complex with space for about 515 students. Reid Hall is an all-female building housing first year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass dormitories. The lower floors are co-educational and the upper floors remain all-female. All students living in these halls must subscribe to a College meal plan.

**“616” West 116th Street**, an apartment-style residence directly across the street from B-H-R provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and a bath.

**“600” and “620” West 116th Street** are College-owned buildings comprised of student apartments of one to five single or double rooms with kitchen and bath, and apartments for community residents.



# College Life

**49 Claremont Avenue**, a newly renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.

**Plimpton Hall**, an apartment-style dormitory on Amsterdam Avenue and West 121st Street, a short walk from the main campus, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath. Approximately 115 Columbia students reside there in all-male suites.

**College Residence Hotel** at 601 West 110th Street has about 32 apartments leased by the College which house 94 upperclass students. This offers students the option to live off-campus, only six blocks down Broadway, in a building with some College-provided supervision.

## Board

The College offers all students meal plans in Hewitt cafeteria and McIntosh Snack Bar. All freshmen and residents of BHR are required to be on a meal plan.

## Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

## Financial Aid for Room and Board

A resident student may use the Room and Board portion of her financial aid award for college housing, or if she prefers, toward her own non-Barnard housing. No resident student ever receives more financial aid for Room and Board than the amount required to cover the cost of living and eating in College residences. Commuter students do not receive financial aid for Room and Board.

## THE WOMEN'S CENTER

The Women's Center was founded in 1971 in acknowledgment of the profound changes in women's lives and expectations and as a further expression of Barnard's traditional commitment to women. Today it is nationally recognized as a model for women's centers because it links all parts of the College community and extends its resources to women beyond the campus gates. Through a wide range of programs and services, the Center provides a physical and psychological meeting space for women, as well as a forum to discuss feminist concerns, both academic and nonacademic. The Center maintains an expanding resource collection of over 6,000 books, articles, special issues of journals, and bibliographies in addition to subscriptions to over sixty newsletters and periodicals on women's issues. It also serves as a clearinghouse of current information on women's studies programs, research on women, women's professional and activist groups, and special events for women.

An annual academic conference, **The Scholar and the Feminist**, has continued inquiry into the impact of feminism on traditional scholarship. In recognition of its catalytic effect on the development of new feminist scholarship, papers and workshop presentations from **The Scholar and the Feminist** have been published each year.

The Women's Center also sponsors and co-sponsors a number of other programs. The Reid Lectureship brings to Barnard distinguished women in public life and the arts who have shown a commitment to other women. A regular series of monthly luncheon meetings focuses on significant women's issues with guest speakers and discussion. Poetry readings by students, alumnae, faculty, and staff, an annual women's film and video festival with the Barnard library, and a close relationship with the Women's Studies Program all reflect the Center's integrated and connecting role at the College.

The Center is governed by a twelve-member Executive Committee composed of equal representation from students, faculty, administrators, and alumnae. Located in 100 Barnard Hall, the Women's Center is open throughout the year.



# V. The Library

## **Wollman Library and Other Library Resources**

The main collection of more than 155,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A large collection of musical and spoken records, a wide selection of periodicals and journals, and a growing collection of instructional videotapes supplement the book collection. There are ample facilities for the use of records and videotapes, and the reading areas contain individual study carrels.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the Women's Center resource collection. A separate Chemistry Library is located in Altschul Hall.

When the College is in session the main library is open seven days a week. The Reference Department offers an instruction program to help each student develop efficient library skills and bibliographic control over her own area of study. The Media Services Department provides additional support for the instructional program.

Barnard students also have access to Columbia University's libraries with over 5.2 million books, 2.7 million microforms, and over 60,000 serial and periodical listings and to the libraries of Teachers College and Union Theological Seminary. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.







# VI. Advising and Student Services

## ACADEMIC ADVISING

Requirements for the degree are specified on page 31. Individual questions should be directed to the Dean of Studies or the appropriate adviser listed below.

### **Class Deans and Advisers, 105 Milbank, 280-2024**

After being notified of acceptance to the College, each entering freshman will receive a program form and the Freshman Program Guide from the Director of Freshman Programs. The student selects courses for the Autumn term and returns the completed program form to the Director who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September.

The Freshman Class Dean oversees the academic advising of freshmen, directs the planning for freshman orientation with the help of a committee of upperclass students, and coordinates other special programs for freshmen. Group meetings with department chairmen and other professors are arranged periodically to facilitate the selection of majors.

Assistance in planning courses of study is given to freshmen and sophomores by the class advisers. Group meetings are scheduled during freshman orientation and program-filing periods. For individual advising, students may schedule appointments in 105 Milbank and departmental offices.

In the second semester of her sophomore year, each student chooses her major field in consultation with the Sophomore Class Dean, her class adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance are the Junior and Senior Class Deans.

While it is the student's responsibility to fulfill all degree requirements, the Senior Class Dean reviews each senior record and advises on graduation status. A senior handbook describing College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCT, and fellowship applications, is sent to campus mailboxes at the beginning of the Autumn term. The Senior Class Dean directs the planning for commencement with the help of class officers and the Commencement Committee.

### **Transfer Advisers, 104 and 105 Milbank, 280-2024**

Individual appointments with the transfer advisers may be arranged in the Office of the Dean of Studies.

### **Other College Degree Candidates, 104 Milbank, 280-2024**

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for course work to be completed at Barnard. Program-filing and registration are guided by the Assistant Dean for Transfer Services.

# Advising and Student Services

## **Foreign Student Adviser, 105 Milbank, 280-2024**

Advice on situations arising from foreign student status is available in the Office of the Dean of Studies.

## **Study Abroad, 104 Milbank, 280-2024**

Students who wish to study abroad for credit toward the Barnard degree are urged to secure approval before leaving the country. Information and forms are available at 105 Milbank.

## **Pre-Professional Advising, 105 Milbank, 280-2024**

Students who are interested in post-baccalaureate professional training may consult the Dean for Pre-Professional Students for help in programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional secretary maintains recommendation files and forwards materials required for applications.

## **Graduate School Advising, 105 Milbank, 280-2024, and departmental offices**

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult appropriate faculty members and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

## **Higher Education Opportunity Program, 10 Milbank, 280-3583**

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students increase their English, math, research, and public speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

## **Resumed Education Program, 105 Milbank, 280-2024**

For advice on academic study and College services for students returning to Barnard after absences of five years or more to complete the A.B., or for graduates redirecting their careers and exploring new interests, the Director of the Resumed Education Program in the Office of the Dean of Studies may be consulted.

## **STUDENT SERVICES**

### **Career Services, 11 Milbank, 280-2033**

The Office of Career Services helps students and alumnae define and implement career plans. To provide this service, the Director and career advisers have designed projects enabling them to explore careers, to keep informed about current labor market trends, and to earn money to finance their education. All placements for the Federal College Work Study Program are made through this office. In addition, individual counseling on careers and related concerns is available.

A newsletter published by the staff informs students about career programs and group counseling sessions. To aid students and alumnae in exploring career areas, the Office maintains CONTACT, a file listing over 1,400 alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resume writing and job interviews, are conducted when the College is in session.

To enable students to clarify vocational interests, the Office sponsors internships in many professional fields and occupations for a semester, the summer, or the January intersession. Interns gain work experience of a more professional level than students ordinarily can, and a few students also arrange academic credit for internships through the Experimental Studies Program.



# Advising and Student Services

The Office, which is open twelve months a year, has contacts with many academic institutions, museums, business firms, hospitals, government agencies, libraries and a large number of other potential employers. Students use part-time and temporary job listings for both on- and off-campus jobs. The Barnard Babysitting Service, a student-run enterprise supervised by the Office, receives thousands of requests annually and provides work for many students. Recruitment for many professions is held in the fall and spring for graduating seniors. *The Job-Seekers Newsletter* announcing full-time job opportunities is issued every two weeks and is mailed to alumnae who request it. Students and alumnae may establish permanent recommendation files at the Office of Career Services for future employment.

## **Program for Disabled Students, 8 Milbank, 280-4634**

In 1978, Barnard established a program to provide disabled women with services which enhance their educational, pre-professional, and personal development. The Office for Disabled Students serves students with a broad range of disabilities, including visual impairments, mobility impairments and hearing impairments as well as students with hidden disabilities, including chronic medical conditions, learning disabilities, and others. The Dean for Disabled Students and her staff work with other administrators and members of the faculty to assist disabled students in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. The Committee to Meet the Needs of the Disabled works to reduce all architectural and other barriers at the College.

The buildings on the Barnard campus interconnect. Classroom and other facilities are accessible to disabled students. Maps of the campus showing special features and access routes are available in the Office for Disabled Students.

## **Financial Aid, 119 Milbank, 280-2154**

Students who have questions or problems regarding financial aid are encouraged to make appointments with counselors in the Office of Financial Aid. Advice is available on applying for financial aid, budgeting, and computation of financial aid awards. For more detailed information, students should consult page 20.

## **Health and Counseling Services, 202 Barnard, 280-2091**

The Student Health Service, recently relocated in a modernized complex of offices, provides diagnosis and treatment of all major and minor health problems and preventative health care in relevant areas. The staff is composed of a Director (an internist), an Associate Director, consultants in Adolescent Medicine, Gynecology, and Dermatology, three psychiatrists, two additional psychotherapists, three nurses, and an administrative staff.

The medical report, required of every student as a prerequisite to enrollment, is filed with the Health Service. Complete examinations are performed for seniors in the Autumn term and sophomores in the Spring term. They are not mandatory, but are recommended and are required if health certificates are needed.

All students regardless of residence must immediately report any illness, however minor, to the Student Health Service. If a resident student wishes to have someone other than the Health Service physicians care for her, her parents should send the name and address of the doctor to the Director before registration.

Campus medical service is available to all Barnard students and is covered by the Student Health Service fee. This service is not available during College vacations. Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians;
- 2) an unlimited number of visits to the gynecologists and dermatologist;
- 3) use of the Counseling Service;
- 4) weekend and night-time coverage.

# Advising and Student Services

The following services are available at an additional charge; these services are covered by the Barnard Insurance Plan when ordered by Barnard staff physicians:

- 1) hospitalization at Presbyterian Hospital;
- 2) medications;
- 3) laboratory tests and x-rays;
- 4) consultations.

The following services are not provided:

- 1) home visits;
- 2) consultations when the College is not in session;
- 3) dental care;
- 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult **Barnard Health Service**, a **Student Guide** which is available at the Student Health Service. Enrollment in the Barnard Insurance Program is compulsory. For further details consult the Barnard Insurance Brochure.

## Resident and Commuter Assistants

As part of the student support network, upperclass students in each residence facility are designated as Resident Assistants to answer questions on campus life for resident students. Commuter Assistants are available to help non-resident students participate in all campus activities. The Commuter Assistants' Office is located in 206 McIntosh Center.

## Commuter Affairs, 208 McIntosh Center, 280-3040

The Office of Commuter Affairs is a resource and referral center designed to enhance the experience of commuter students at Barnard College. It is a place where commuters can meet other commuters as well as receive information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations. The Commuter Assistant staff is available to help with concerns related to commuting, academic procedures, or with issues of a vocational or personal nature. The office also coordinates the Urban New York Program and initiates educational, cultural, and social programs designed to enrich commuter life.

## Women's Counseling Project, Reid Hall, 280-3063

Affiliated with the Barnard Women's Center, the Women's Counseling Project is a free, confidential referral service specializing in the areas of health care, therapy, sexuality, and the law.

## Recommendations

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

## Student Records and Information

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in "A Guide to Barnard College."

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name; class; home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.



# VII. The Curriculum

## Requirements for the A.B. Degree

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and four terms of physical education. As parts of the 120-point requirement, all students must complete a major and must fulfill the applicable general education requirements. Beginning in 1984, the general education requirements change; both the “old” and “new” requirements are listed below.

## Major Requirements

All students must complete the requirements of an approved major. The number of required semester-courses for the major depends on the major chosen (see individual department and program curriculum statements).

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairmen of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the combined major that comprises all the course requirements of two majors and **one** integrating senior project.

## General Education Requirements for Students Entering in the Fall of 1984 and Thereafter

The Barnard College faculty has adopted a revised set of general education requirements which will apply to all students who begin their studies in the fall of 1984 and thereafter. The program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a vigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements are as follows:

### FRESHMAN SEMINAR

Freshmen are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of strong writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of Freshman Seminars, with descriptive information and the names of instructors, appears on page 146. Transfers are not required to take the Freshman Seminar.

### FRESHMAN ENGLISH

Freshmen must take a designated one-semester writing course designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course on the basis of a writing proficiency examination. Foreign students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take Freshman English.

# The Curriculum

## FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester (or a more advanced course for which the fourth semester is prerequisite) of a course of three or more weekly hours in any foreign language. (In Latin, both Latin BC2003 and BC2004 or their equivalents must be completed.) Courses narrowly focused on conversation or composition or reading do not qualify. The faculty recommends that the third and fourth semesters be completed at Barnard; that elementary courses be completed in the freshman year; that courses be taken consecutively without interruption; that proficiency be established by the end of the junior year. Re-enrollment without credit is required, whenever feasible, for students whose work in levels 1, 2, or 3 is graded below C. Most students satisfy the requirement in French, Spanish, Hebrew, German, Russian, Italian, Chinese, Latin, or Greek, but other languages taught in the University are also available. The student who wishes to study a language not offered by any division of the University should consult the chairman of the Barnard Language and Literature Committee.

**Exemption** from the requirement may be obtained in the following ways:

1. CEEB score of 750 or higher;
2. Chairman's decision on AP score of 4 or 5;
3. Departmental examination.

**Placement** is determined in the following ways:

1. CEEB score of 650-749 level 4  
550-649 level 3  
400-549 level 2  
below 400 level 1
2. On the basis of previous college work for transfer students, in the level following that of the last satisfactorily completed semester course. Formal withdrawal and re-enrollment without credit may be required for students who are judged by the department to be unsuitably placed and in need of additional preparation or review.
3. By Departmental examination if there is no CEEB score or previous college transfer work.

**Credit** is determined on the following basis:

1. For courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
2. No prior approval given for summer or transfer work undertaken as Barnard matriculant; on completion of other-college course, credit is granted with departmental approval, or by examination, or on completion of next level at Barnard.
3. No duplicate credit is granted for work repeated at the same level.
4. No credit for the first semester of an elementary language is granted unless a more advanced course is completed.

Exception to the general guidelines outlined above is made if the high school language of instruction was not English. Fulfillment in English is granted for foreign students who complete English BC1201 or one satisfactory year at Barnard. Fulfillment is granted in the high school language of instruction for students whose native language is English (e.g., French for alumnae of the Lycée Français).



# The Curriculum

In addition, fulfillment is granted for the following special situations. A sequence which includes Italian V1301, V1302, and one year of literature will qualify. Completion of Spanish BC3006 will be sufficient for students of Hispanic background. Because of curricular differences, students who as Barnard matriculants complete the third or fourth semester of French or German outside the Barnard departments are required to take a departmental examination for placement or fulfillment.

## LABORATORY SCIENCE

Students must complete one science course (two semesters), with laboratory. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	C1103-C1104
Biology	Barnard BC1101-BC1102
Chemistry	Barnard BC1601-BC1602 or BC1601-BC3230 C1403-C1404 with C1503-C1504 or with C1503-C1507 C1407 with C1503 or with C1507 and Barnard BC3230
Environmental Science	Barnard BC1001, BC1002
Geography	W1005-W1006 C1001-C1002
Geology	V1011-V1012 V1021-V1022
Physics	C1021-C1022 F1003-F1004 V1003-V1004 C1006, C1007 or C1107, C1011, C1012 V1103-V1104 V1305-V1306 W1003-W1004 W3001-W3002
Psychology	Barnard BC1105, BC1108, BC1117, BC1127, BC1130, BC1136, BC3256 (any two)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with department chairmen for guidance with respect to fulfilling this requirement.

## QUANTITATIVE REASONING

All students must take one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. The requirement may be fulfilled by taking and passing any of the following courses:

Chemistry	BC 1601: General Chemistry 1 C 1403, C 1404: General Chemistry
Computer Science	W 1003: Introduction to Computer Programming B W 1005: Introduction to Computer Programming C All other Computer Science department courses carrying degree credit except W1001: Introduction to Computer Programming A

# The Curriculum

Economics	V 1411: Introductory Probability and Statistics for Economics
Environmental Science	W 3071, W 3072: Quantitative Techniques in Geography
Mathematics	V 0077: Pre-calculus (Counts toward Quantitative Reasoning requirement. No degree credit.) V 1007: Applied Linear Algebra V 1100: Brief Calculus V 1101: Calculus, IA All other Mathematics courses carrying degree credit.
Philosophy	V 3411: Formal Logic A V 3415: Formal Logic B
Physics	All courses except BC 1001, BC 1002: Elementary Physics
Political Science	BC 3345: Colloquium on Statistical Analysis of Politics and Policy
Psychology	BC 1609: Statistics W 1920: Statistics for Behavioral Scientists
Statistics	V1111: Introduction to Statistics All other Statistics department courses

Note: A student may fulfill the requirement if she receives AP credit for a course equivalent to one of the above.

The requirement may also be fulfilled by taking and passing a special course in Quantitative Reasoning, a full description of which appears on page 231.

**DISTRIBUTION** Students must complete four semester-courses outside the major department, two each in the Humanities and the Social Sciences. One interdisciplinary course may be used to satisfy the requirement in each of the two areas. Normally, only one course in any academic department may fulfill the distribution requirement.

The distribution requirement in the Humanities may be fulfilled by taking courses in Art History, Philosophy, Oriental Humanities, Studies in the Humanities, Medieval and Renaissance Studies; or by taking courses in any literature, the history or literature of music, the history of dance; Humanities C1001 or C1002; or designated courses in Religion or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by taking courses in History, Oriental Civilization, American Studies, Anthropology, Economics, Health and Society, Political Science, Sociology, or in the history of religion; European Studies BC3352; designated courses in Women's Studies, or CCC1101 or CCC1102.

## General Education Requirements for Students Entering before Autumn 1984

For students beginning their studies before the Autumn term of 1984, the following general education requirements apply:

<b>FRESHMAN ENGLISH</b>	The requirement is identical to the Freshman English requirement listed above, page 31.
<b>FOREIGN LANGUAGE</b>	The requirement is identical to the Foreign Language requirement listed above, page 32.



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**LABORATORY SCIENCE** The requirement is identical to the Laboratory Science requirement listed above, page 33.

**DISTRIBUTION** All students must complete six semester-courses of three or more points outside the major department, to be distributed among three or more of the categories listed below (i.e., no more than two semester-courses in any single category).

**The qualifying courses that are listed in this catalogue bear the Roman numeral of the relevant category in parentheses on the last line of the course description. The chairman of the appropriate Barnard department will determine the eligibility of all other courses.**

**I. FINE ARTS** Art History; history or literature of Music; Dance BC2565, BC2566; English BC3129.

**II. LITERATURE** Any literature written in the original language (i.e. not literature in translation).

**III. OTHER HUMANITIES** Philosophy; Religion (other than history of religion courses); Oriental Humanities; Readings in the Humanities; Medieval and Renaissance Studies; Humanities C1001-C1002; Classical Literature BC1032, V3123.

**IV. HISTORY** History; Oriental Civilization; history of religion courses; American Studies; European Studies BC3352.

**V. OTHER SOCIAL SCIENCES** Anthropology; Economics; Geography (see listings under Environmental Science); Health and Society; Linguistics; Political Science; Sociology; Women's Studies BC 3111.

**VI. MATHEMATICS** Mathematics; Computer Science W3203, W3261, W4203, W4241, W4242, G4801.

## Electives

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser. No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. (Of these a maximum of four arts studio courses may be credited, and a student who takes more than two is required to validate each additional studio course with a course in art history.) Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University.

## Physical Education Requirement

Four terms of physical education are required, with two semester-courses to be taken in the freshman year and two additional semester-courses during the years following. Sophomore and junior transfers are required to complete **two** semester-courses of physical education beyond the freshman year. The physical education requirement is in addition to the 120 academic-point requirement and is graded on a pass-fail basis.

## Length of Residence

Students are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered **in absentia**, with the permission of the Committee on Programs and Academic Standing.

# The Curriculum

## Requirements for Transfer Students

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms and must complete at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 32). Transfer students are eligible for Honors when both overall and Barnard averages meet the required academic standards.

## Transfer Credit

Courses completed at other accredited colleges and universities may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Director of Transfer Services who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement in proportion to progress toward the degree at the previous institution with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until the second term or a more advanced course has been satisfactorily completed. Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations governing Summer Study (see page 38).

Freshmen with a record of prior college work may request up to one semester of transfer credit provided that the courses were not applied to the high school diploma.

## Classification of Students

Students are classified as follows:

<b>MATRICULATED:</b>	<b>Points completed</b>
FRESHMAN	fewer than 24
SOPHOMORE	24-51
JUNIOR	52-85
SENIOR	86 or more
UNCLASSIFIED	Transfer students who have not yet been assigned credit
<b>NONMATRICULATED:</b>	
Other college degree candidates	
Barnard alumnae auditing courses	
Barnard alumnae taking courses for credit	
Any other student who is not a degree candidate	

A degree candidate (i.e., student who is matriculated) may not change her status to non-matriculated.

## Filing of Diploma Name Cards

The Diploma Name Card, available at the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and January. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar, page 6). Graduation ceremonies are held in January and May.



# VIII. Other Academic Opportunities

## Minor

The selection of a minor field of study is optional, requires at least five courses which total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chairman. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected is within one of the six that qualify for the requirement.

## Senior Scholar Program

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as “Senior Scholar” on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals, including writing projects, government internships, and art projects.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. The student’s written application for the Senior Scholar Program is submitted to the Committee on Honors by the coordinator and is subject to the approval of the Committee. The deadline for application appears in the College Calendar (see page 6).

For financial assistance in carrying out the project, the student may apply separately for a student research grant.

## Program Planning for Students Interested in Medicine or Dentistry

The basic premedical and pre dental requirements are one year of biology with laboratory (Biology BC1101 and BC1102); one year of inorganic chemistry with laboratory (Chemistry BC1601 and BC3232); one year of organic chemistry with laboratory (Chemistry BC3230, BC3231, and BC3328); one year of physics with laboratory (Physics V1003-V1004 or Physics V1103-V1104); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional inorganic laboratory (Chemistry BC3338 or Chemistry BC3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard’s own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (Optometry, Podiatry, Physical Therapy, and Public Health) as well as Medicine and Dentistry.

Pursuing a major in the sciences is not necessary for premedical students provided they include the above required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year) at which time students are advised to take the Medical College Admissions Test which is normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

# Other Academic Opportunities

All students who are interested in the health professions should consult their class advisers as early as possible and should start a file in the Pre-Professional Office by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

## Program Planning for Pre-Law Students

There are no specific course requirements for entry to law school, nor is there any specific recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Pre-Law Handbook*, an annual publication of the Association of American Law Schools. Copies may be used in the Pre-Professional Office, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-Law students are encouraged to make themselves known to the Pre-Professional Office in the junior year or earlier. The LSAT should be taken in June or October of *the year prior* to expected entry to law school; of these, the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in April each year and can be picked up in 105 Milbank any time thereafter.

## Program Planning for Students Interested in Journalism, Architecture, Social Work and Business

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Pre-Professional Office, 105 Milbank, and in the Office of Career Services, 11 Milbank.

## Credit for Summer Study

Students are expected to complete the work for the degree in eight academic terms. Because Barnard does not offer courses during the summer, the granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, with some additional regulations. The maximum number of courses that can be credited toward the degree for **course credit** is four, subject to the approval of the Committee on Programs and Academic Standing. Although students cannot receive degree credit for summer courses exceeding a maximum of 16 points, they can fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard Placement Examination. The full regulations on credit for summer study are available at the Office of the Registrar and are listed on the Application for Approval of Summer Session Courses. The student may find out in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the spring semester. The application may also be retroactive. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than two one-semester courses may be counted for one summer session.
2. To be eligible for credit, courses normally must be of at least six weeks' duration.
3. **Grades** for courses taken in summer school must be letter grades in A to C range. They are **not included in the cumulative grade point average**.

## Study Abroad

Several options for study abroad are available to Barnard students.



# Other Academic Opportunities

Barnard offers opportunities for study in Great Britain to junior-year students to spend the third year of undergraduate study at Oxford (Somerville College), Cambridge (Newnham College), or the University of London (University College or London School of Economics). Admission to these colleges is competitive. Those interested should consult with the Dean of Studies no later than October of the sophomore year.

Under the auspices of **Reid Hall in Paris**, several semester-long and full-year Barnard-Columbia programs are offered. Semester-long Institutes include intermediate and advanced courses in French language, literature, and civilization; fine arts and architecture; sociology and ethnography of French society and culture; and Women's Studies. The year-long program combines classes in the French university system with research directed by a scholar in the student's chosen field. The majority of applicants to Reid Hall are not French majors, but a strong background in French is required for year-long programs. Further information may be obtained from the chairman of the French Department, the chairman of Women's Studies (concerning the Reid Hall Women's Studies program), or in the Office of the Dean of Studies. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar, 107 Milbank.

Barnard participates in the program of the Intercollegiate **Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard College is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Course credit for courses taken at institutions abroad, other than Reid Hall, is treated as transfer credit (see page 36).

## Study at Jewish Theological Seminary

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of her major department chairman. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 36 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult advisers in both institutions, and must be separately admitted to each.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

## Study at the Manhattan School of Music

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a recently established program of cross-registration, musically qualified Barnard students have the opportunity to enroll in private music lessons at the Manhattan School. Students interested in this possibility should consult with the chairman of the Barnard Music Department.

# Other Academic Opportunities

## Special Academic Programs

Barnard is currently developing a summer academic program for secondary school students; a residential program will begin in the summer of 1985. Program information and applications will be available in the Office of the Dean for Special Academic Programs.

## DOUBLE AND JOINT DEGREE PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, School of Engineering, and Law School. Details on specific programs are given below.

### Graduate Program in Public Policy and Administration

Barnard College and the Graduate Program in Public Policy and Administration offer a joint degree program leading to the A.B. degree at the end of four years and the Master of Public Administration (M.P.A.) after one additional year.

Although application to the program is made in the junior year, it is advisable to consult the Program Director, Professor Demetrios Caraley, 402 Lehman, as early as the sophomore year to plan an appropriate undergraduate program. Admission to the joint program does not constitute automatic admission to the Graduate Program in Public Policy and Administration. The student in the joint program applies for admission to the Graduate Program in the Autumn Term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard with an approximate grade point average of 3.5.

A Barnard student in the joint program must satisfy all Basic, Distribution, and Major requirements for the A.B. degree at Barnard. Courses in the Graduate Program may be used to fulfill major requirements only with the written consent of the chairman of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth year, is also required. In the fifth year of the program a student completes at least 30 points including specialization requirements.

Further information may be obtained from the Program Director or in the Office of the Dean of Studies.

## School of Law

Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two outstanding juniors each year to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.). Each student must submit a record of 90 points, including all general requirements, 60 of which will have been completed at Barnard. Each must also demonstrate that she will be able to complete her major and the final 30 points at the Law School, 12 of which must be in the Liberal Arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year.

Students interested in the program should consult with the Dean for Pre-Professional Students early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Dean of Studies Office; the test is usually offered in June, October, December, and February or March.

## School of Oral and Dental Surgery

A limited number of qualified students may wish to enter the School of Oral and Dental Surgery after three years of undergraduate work at Barnard. To be eligible for this program, before entering the Dental School, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the Dental School. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the Dental



# Other Academic Opportunities

School, and she must have completed all of the general and major requirements of Barnard College.

Students interested in this option should consult with the Dean for Pre-Professional Students in the sophomore year for early program planning. Before her admission to the Dental School she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree while attending the Dental School.

## **School of Engineering**

The School of Engineering and Applied Science and Barnard College offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses are taken in the Engineering School. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the Basic, Distribution, and Major requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs in the Office of the Dean of Studies to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details on specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the Bulletin of the School.

## **CULTURAL EXCHANGE WITH THE UNIVERSITY OF ROME**

According to the Agreement of Cultural Exchange signed by Barnard and the University of Rome in May 1980, Barnard College and Columbia University faculty will work in parallel or integrated courses with their colleagues at the University of Rome. Through these courses Barnard students will enjoy the unique opportunity of a dialogue between their professors and the visiting guests as an integral part of their classroom work. A joint Executive Committee of Barnard College, Columbia University, and University of Rome faculty directs the Exchange which is administered by the Center for International Exchange.

## **AUDITING**

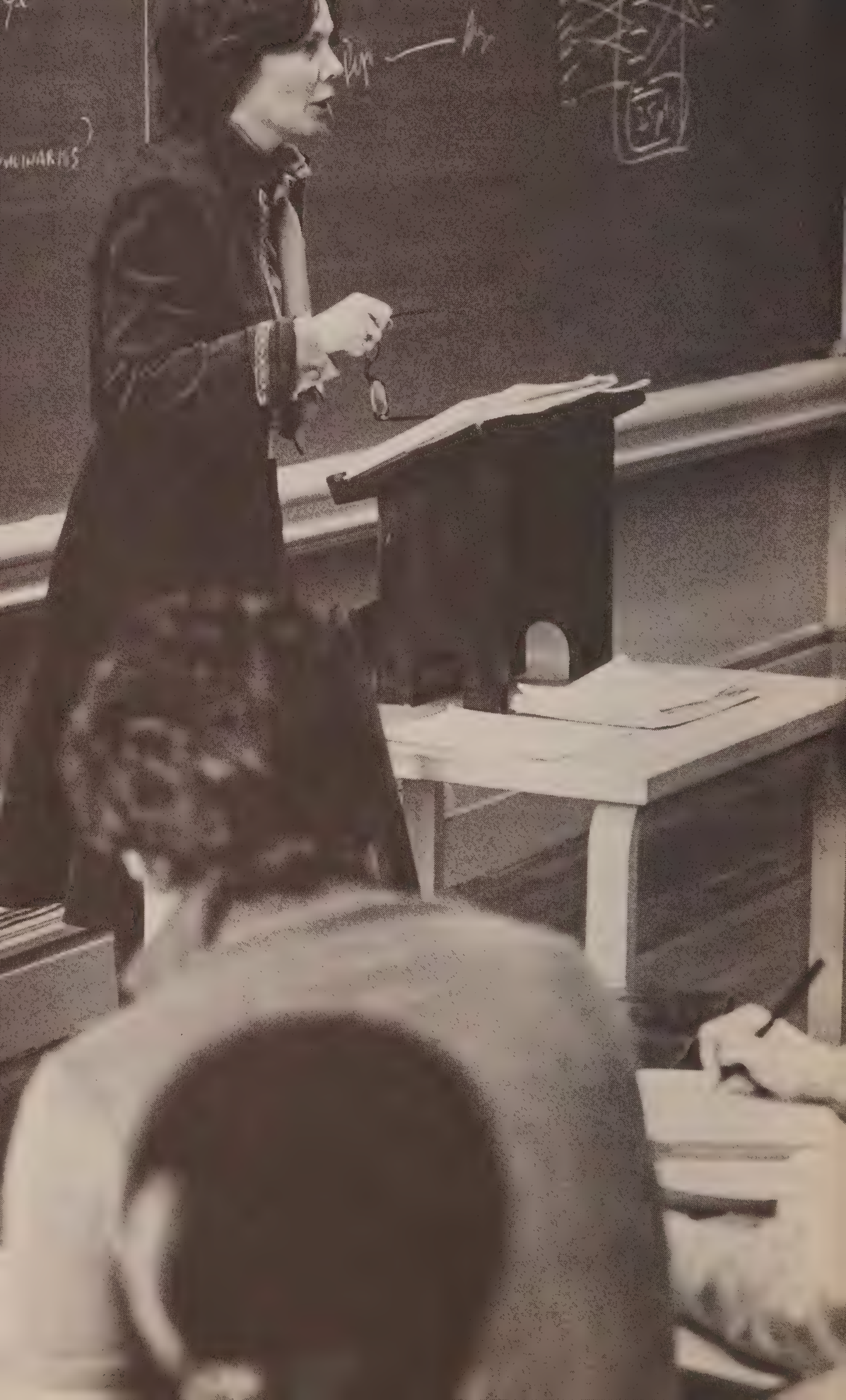
### **Student Auditing**

Matriculated students may audit courses in special instances by arrangement with the instructor. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript; they are **not** graded; and they may **not** be subsequently converted to credit courses.

### **Alumnae Auditing**

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.







# IX. Registration

## REGISTRATION PROCEDURES

### Registration for New and Continuing Students

Instructions and materials for registration, enclosed in individual packets, are available to students in Altschul Hall on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar, page 6. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 18) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar, page 6. In addition, any outstanding debts to the College, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see page 44), which must be completed by the published deadline (see College Calendar, page 6). If for some compelling reasons students must enroll in less than a full-time program, the written permission of one of the deans in the Dean of Studies Office is required.

### Registration for Resumed Education Students

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. They obtain registration information during the regular registration period (see College Calendar, page 6) in the Dean of Studies Office from the Director of the program who is their academic adviser. Resumed Education students are subject to regular registration procedures and deadlines and payment of late registration fees.

### Registration for Columbia University Courses

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses **not** cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are sectioned prior to registration. Barnard students wishing to register in such courses must take part in the sectioning procedure.

# Registration

Only students enrolled in the Education Program are eligible to take the Teachers College courses cross-listed in the Catalogue. All Teachers College courses which are **not** cross-listed require approval of the Committee on Programs and Academic Standing by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

## STUDENT PROGRAMS

### Program Filing

The list of courses for which the student is registered each semester is known as the student's **program**.

During the program-planning period (see College Calendar, page 6), a student files her tentative program for the following semester at the Office of the Registrar after consulting her academic adviser. The tentative program must be signed by her adviser and filed by the published deadline. Failure to meet the deadline or to file without the authorized signature will entail a fee of \$10.

During the registration period (see College Calendar, page 6), the tentative program is returned to the continuing student in her registration packet; each new student also receives a program form with her registration material. Between registration and the date for program filing a student is required to reach a *final* decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is no refund issued for courses dropped after the published deadline for program filing, and any part-time program filed after that date will be assessed full tuition. Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar, page 6). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

### Adjustment of fees and refunds

**For changing program of study.** If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program is made by September 14 (last day of program filing) in the Autumn Term and by February 1 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

### Schedule of Classes and Room Assignments

Class times and room numbers are published in the **Schedule of Classes and Room Assignments**, available during registration. Final information on changes in class times and rooms is posted at the entrance to Milbank Hall.

### Sign-Up Sheets

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

### Section Changes

A change from one section to another of a course after program-filing requires the approval of the instructor of the new section and the class adviser on the appropriate form to be submitted to the Office of the Registrar. Prior to program-filing the change should be made on the program form itself with departmental approval.



## **Adding Courses**

Courses may not be added after the deadline for filing academic programs (see College Calendar, page 6). Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signatures on either the program or add form of the class adviser and the major adviser.

## **Dropping Courses**

Courses may be dropped by submission of an Application to Drop a Course or Section, available at the Office of the Registrar. The form requires the signature of the class adviser and the major adviser, and must be returned to the Office of the Registrar before the deadline published in the College Calendar (see page 6). Courses dropped before the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline, the course will be recorded on the permanent transcript with the notation W (Withdrawal).

## **Attendance**

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations.

A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

Barnard is a non-denominational college which does not schedule religious holidays in the academic calendar, although every effort is made to avoid the dates of major religious observances in the scheduling of class meetings, deadlines, and examinations. It is expected that students who miss classes due to observance of religious holidays will make individual arrangements with their instructors to make up any work missed as a result of absence.

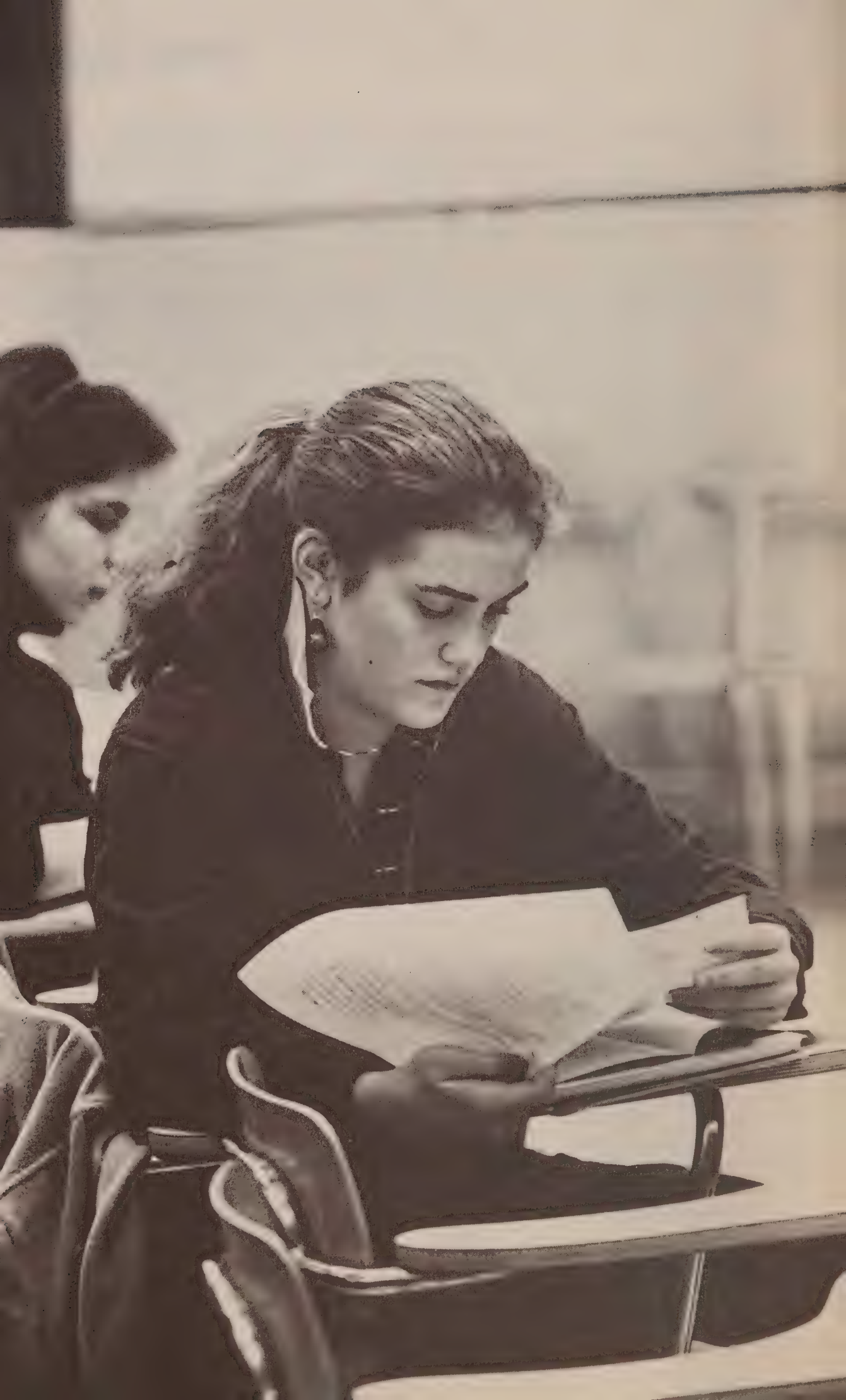
## **Withdrawal and Readmission**

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 20.)

A student in good health who leaves with her record complete and who is in good standing may re-register within one year of the date of withdrawal without reapplying through the Office of Admissions. No readmission fee is charged a student who submits a written confirmation of her intention to return to the Office of the Dean of Studies by April 1 for the Autumn term or November 1 for the Spring term. After an absence of one year a student must file readmission forms through the Office of Admissions and pay readmission fees (see page 17).

## **Exceptions to College Regulations**

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.





# X. Examinations

## **Language Placement Examinations**

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

### **Transfer Students**

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made by the Assistant Dean for Transfer Services, according to the provisions of an established scale. A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credits.

### **Freshman Students**

Freshman students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Freshman Program Director advises all new freshmen of their language requirements.

### **Summer School Language Courses**

Students, other than incoming transfer or freshmen students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

Any student who has been placed according to her CEEB score may take a placement examination if she wishes, but she must then accept that placement, even if it is lower than her previous placement.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar, page 6. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

## **Departmental Placement Examinations**

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

## **Make-Up Examinations During the Term**

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

# Examinations

## Final Examinations

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period. The dates for final examinations, given at the end of each semester, are published in the College Calendar, page 6. Exact times and room numbers for individual examinations are posted on the bulletin board at the Office of the Registrar two weeks before final examinations.

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has first-hand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, the student will notify the instructor and go to the College Physician, 202 Barnard Hall. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour for a three-hour examination, she will be graded on the work she has completed.

## Deferred Final Examinations

Deferred final examinations for Barnard courses, given in September and January (see College Calendar, page 6), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health should be reported to the Office of Health Services in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by designated dates (see College Calendar, page 6). A payment of a \$10 handling fee for each examination must accompany the application.

Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

## Examinations for Disabled Students

Individual arrangements are made for disabled students unable to take examinations in the usual manner. A disabled student who anticipates the need for a special examination procedure should consult her instructor(s) and the Dean for Disabled Students at the beginning of the semester.

## SAT, GRE, and LSAT Examinations

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.



# XI. Grading and Academic Honors

## Grading system

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades for those courses. The system used at Barnard is as follows:

A +	
A	Excellent
A -	
B +	
B	Good
B -	
C +	
C	Satisfactory
C -	
D	Poor
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
NC	No credit
Y	Two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from course without official notification to Registrar

Pass-fail grades are recorded for all students in certain courses, e.g., in physical education. Pass-fail grades for individual students are subject to regulations described below.

Regulations that apply to grades of I (Incomplete) are outlined on page 50.

Grades of I or X that were recorded in 1980-81 or before will be changed to NC (no credit) if the missing work is not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work will be calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded points on the following scale:

A +	=	4.3	B -	=	2.7
A	=	4	C +	=	2.3
A -	=	3.7	C	=	2
B +	=	3.3	C -	=	1.7
B	=	3	D	=	1
			F	=	0

# Grading and Academic Honors

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard only with the permission of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement.

## Grade Reports

The grade report for the Autumn semester is enclosed in the student's registration packet in January. At the end of the Spring semester, a cumulative grade report of all the student's work at Barnard is sent to the home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parents or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent. If the student wishes additional transcripts, a charge of \$2 per copy will apply (see Transcripts, page 51).

## Pass-Fail Option

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass-Fail form to the Office of the Registrar before the deadline published in the College Calendar, page 6. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the pass-fail option the student is held responsible for fulfilling all the course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record pass-fail grades for all students enrolled, e.g., English BC 1202.

At least 96 of the 120 points required for graduation must be assigned letter grades, including Freshman English and all courses designated to count toward the major (and minor, if the student has designated a minor). The pass-fail option does not apply to these courses. No more than six of the courses credited to the degree may be assigned a grade of P.

No limitation is placed on the number of pass-fail grades which may be recorded in a single term, except those rules which apply to the Dean's List and to eligibility for financial aid.

Grades of P are not included in the grade point average. A grade of F whether or not received under a pass-fail option is computed as zero in the grade point average.

The request for a course to be graded under the pass-fail option is **irreversible**. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

## Incompletes

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incompletes is the last day of the reading period.

There are two Incomplete options. The "early Incomplete" requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. Students who have the permission of their instructors to take grades of Incomplete are required to use the form, which is a written guarantee of the terms set forth in it by the student and the instructor.

A student who has more than two Incompletes outstanding may not be allowed to register for a new term.



# Grading and Academic Honors

## Eligibility for Intercollegiate Athletics

Any student at Barnard College, Columbia College, or in the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics. To be eligible for athletic activities, the student must:

- be a candidate for a bachelor's degree.
- be registered for at least 12 points of credit.
- have passed by the beginning of the academic year: 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year.
- have attended the University for not more than eight terms.
- not have completed the requirements for the bachelor's degree.

An eligibility blank must be filed with the Director of Athletics. The completed blank is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about the athletic eligibility should be referred to the Dean of Studies of Barnard students.

## Dean's List

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Eligibility is based on all the letter grades, a minimum of three for a total of **at least 12 points in each term**, exclusive of those courses receiving grades of P.

## Transcripts

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following information: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$2 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$2 fee. There is no charge, however, for a transcript sent to a division of the University.

## Honors

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet this requirement. If transfer credit from a foreign institution is applied to the degree, the qualifying average is computed on a sliding scale. Grades for summer work are excluded from the grade-point average. Departmental honors are awarded to a percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

## Phi Beta Kappa

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Under the 35-course plan, eligibility for election as a senior will require thirty completed courses. Under the point system, junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.







## XII. Courses of Instruction

### The Curriculum

The Barnard curriculum consists of forty-four departments and programs. At present, twenty-seven departments and eight interdisciplinary programs offer majors, and students may also elect minors if they choose. All academic programs listed are planned for 1984-85; their listing in this catalog is not a guarantee of their availability in subsequent years, and the College may revise its degree requirements from time to time.

### Classes

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 18 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern equipment, and computer facilities are available at Barnard.

### Courses of Instruction

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an x; Spring term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Music BC 1001-BC 1002). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chairman and the approval of the Committee on Programs and Academic Standing. The first semester of elementary language, whether taken at Barnard or elsewhere, does not receive degree credit unless the second semester is completed.

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g. Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

# Courses of Instruction

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. Hyphens and commas between course numbers for other than BC courses do not necessarily have the connotations described above for Barnard courses.

- BC— Barnard College (**The last two digits of these numbers indicate the former numbers of these courses, with the exception of English A, Spanish A-B, Spanish 2, Spanish 3A-4A.**)
- C— Columbia College
- F— School of General Studies
- G— Graduate School of Arts and Sciences
- R— School of the Arts
- V— Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W— Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates





# American Studies

*Office: 414 Lehman Hall*

*Telephone: 280-2159; 4385*

This program is supervised by the Committee on American Studies:

**Professor of History**

Robert A. McCaughey

**Professor of Art History**

Barbara Novak

**Associate Professor of History**

Charles S. Olton

**Associate Professor of History**

Rosalind N. Rosenberg

**Assistant Professor of English**

Alfred Bendixen

**Assistant Professor of History**

Janet A. Riesman (Acting Director)

This program helps students to develop understanding of American civilization considered as a whole. Specialized studies in all fields of learning dealing with American subject matter are included in the program, and the impact of these studies is reflected in the work of the senior seminar. Faculty members supervising the Program are specialists in American cultural and women's history; American art history; early American history; American literature, and American social and political history. All are committed beyond their individual specialties to an interdisciplinary approach to the study of American history and culture. The program maintains ongoing relations with the Center for American Culture and the Oral History Program of Columbia University and the New York Historical Society.

## REQUIREMENTS FOR THE MAJOR

In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American studies must take a program, planned in consultation with her major adviser, consisting of 12 courses. There are no prerequisites for entrance to the Program or to American Studies BC 3401, BC 3402. Students are advised to complete American Studies BC 3401, BC 3402 before taking American Studies BC 3703, BC 3704, but exceptions are allowed. Courses taken in other departments in fulfillment of the major requirements may be taken in any sequence. The Program crosslists all courses offered at Barnard and Columbia that are appropriate for the major. A listing is available from the Program Director.

The 12 courses must represent the following distribution:

- 2 courses in ancient, medieval or European history in any combination;
- 2 courses in American history;
- 2 courses in the social sciences dealing with American subject matter;
- 2 courses in the humanities dealing with American subject matter;
- American Studies BC 3401, BC 3402 (in the junior year); and
- American Studies BC 3703, BC 3704 (in the senior year).

A research essay prepared in the senior seminar is required.

## REQUIREMENTS FOR THE MINOR

A student who minors in American Studies must take a program consisting of 6 courses. The 6 courses must represent the following distribution:

- 2 courses in American history;
- 1 course in the social sciences dealing with American subject matter;
- 1 course in the humanities dealing with American subject matter;
- American Studies BC 3401, BC 3402.

# American Studies

## COURSES OF INSTRUCTION

### **AMS BC 3401x, AMS BC 3402y. Seminar on American Culture and National Character.**

An interdisciplinary approach to the understanding of America, drawing upon history, literature, art, women's studies, black studies, popular culture, oral history, folklore, and other sources. The first semester examines classic 19th and 20th century responses to American culture and the second semester examines the changing spectrum of contemporary scholarship on American society, from colonial times to the present.—BC 3401x: J. Riesman. Th 2:10-4:00. BC 3402y: Instructor to be announced. M 2:10-4:00.

*American Studies majors are required to take both semesters. Other students may take either semester. Permission of the instructor required. Enrollment limited to ca. 20 students.*  
*4 points.*

### **AMS BC 3703x, AMS BC 3704y. Senior Seminar.**

Individual research on diverse aspects of American civilization, in consultation with the instructor, and presentation of results in the form of the senior essay.—J. Riesman and R. Rosenberg.

*Enrollment limited to senior majors.*

*4 points. W 2:10-4:00 with frequent conferences.*





# Ancient Studies

Office: 216 Milbank Hall

Telephone: 280-2852

This program is supervised by the Committee on Ancient Studies:

**Assistant Professor of Art History (Columbia)**

Beth Cohen (Representative for General Studies)

**Professor of Classics (Columbia)**

James A. Coulter (Representative for Columbia)

**Associate Professor of Classics**

Lydia Lenaghan (Representative for Barnard)

**Associate Professor of Classics**

Helene P. Foley (Representative for Barnard)

**Professor of History (Columbia)**

William V. Harris

**Assistant Professor of Religion**

Holland Hendrix

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

## REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 9 courses are required in the major, including

4 courses in one geographic area or period;

at least the first semester of Ancient Studies V3998, *Directed Research in Ancient Studies*, with presentation of written results; and

the appropriate sequence in ancient history.

In some cases, a senior seminar in one of the departments may be substituted for Ancient Studies V3998, V3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

## REQUIREMENTS FOR THE MINOR

No minor is offered in Ancient Studies.

## COURSES OF INSTRUCTION

A list of relevant courses of instruction offered in 1984-1985 may be obtained from the Representative for Barnard.

# Anthropology

Office: 411 Milbank Hall

Telephone: 280-8312

## Professors

Morton Klass, Abraham Rosman, Paula G. Rubel (Chairman), Joan Vincent

## Assistant Professor

Nan A. Rothschild

Other officers of the University offering courses listed below:

## Professors

Alexander Alland, Jr., Myron Cohen, Morton H. Fried, Ralph Holloway, Robert Murphy,<sup>1</sup> Harvey Pitkin, Elliott P. Skinner, Ralph Solecki

## Assistant Professors

Terence D'Altroy, Elaine Combs-Schilling, Libbet Crandon, Ross Hassig, William Macdonald, Don J. Melnick, Katherine Newman

<sup>1</sup>Absent on leave, Autumn Term.

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many nonacademic needs both in American society and in international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements.

## REQUIREMENTS FOR THE MAJOR

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. The student's program should be designed in consultation with her adviser as soon as possible after the declaration of the major. Regular and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including

- |            |   |
|------------|---|
| ANT V 1001 | <i>Introduction to Human Origins;</i>     |
| ANT V 1002 | <i>Introduction to Culture;</i>           |
| ANT V 3011 | <i>Social Organization;</i>               |
| ANT V 3041 | <i>History of Anthropological Theory;</i> |

2 colloquia; and

4 other Anthropology courses, one of which will be an Area course (e.g., Peoples of the Middle East, Peoples of Europe, Peoples of Africa, Peoples of Southeast Asia). The requirements of 2 colloquia and an Area course may be met by either undergraduate or graduate courses.



Students majoring in Anthropology are required to submit a substantial research paper or essay. Such a paper may have its origin in a colloquium (or in another course acceptable to the department), and be completed in ANT BC 3871x-ANT BC 3872y; or it may be based on papers submitted for two colloquia, the papers of which are to be presented to the department, along with introductory and culminating statements that make of them an entity; or it may be the result of a year's independent research in BC3871x-BC3872y.

## REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses:

ANT V 1001 or ANT V 1002;  
ANT V 3041;  
one area course; and two other courses.

The department also cooperates with related programs such as Foreign Area Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology (e.g. Architecture). Arrangements for combined, double, joint, and special majors are made in consultation with the chairman.

Premedical students who wish to minor in anthropology should seek the advice and approval of the department chairman.

## COURSES OF INSTRUCTION

### BASIC COURSES

#### ANT V 1001x, ANT V 1001y. Introduction to Human Origins.

Human biological and cultural evolution, as studied by physical anthropologists and archaeologists.—Staff.

3 points.

x: Section I Tu Th 1:10-2:25. M. Fried. Section II M W 1:10-2:25. N. Rothschild.

Section III Tu Th 6:10-7:25. W. Macdonald.  
Discussion hours to be arranged.

y: Tu Th 2:40-3:55. R. Solecki.

Discussion hours to be arranged. (V)

#### ANT V 1002x, ANT V 1002y. Introduction to Culture.

Comparative and functional analysis of culture; habitat, technology, and economy, social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality.—Staff.

3 points.

x: M W 1:10-2:25. E. Skinner. Discussion hours to be arranged.

y: Section I Tu Th 1:10-2:25. P. Rubel.

Section II Tu Th 9:10-10:25. A. Rosman.

Section III M W 6:10-7:25. M. Fried.

Discussion hours to be arranged. (V)

#### Linguistics LIN V 1101x, LIN V1101y. Introduction to Linguistics.

See Linguistics listing.

### INTERMEDIATE COURSES

#### ANT V 3002x. Political Anthropology.

The development and comparative study of political structure and government in non-western societies. Instructor to be announced.

Offered in alternate years. Not offered in 1984-85.  
3 points. (V)

#### ANT V 1006y. Introduction to Archaeology.

The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, and classics.—T. D'Altroy.

3 points. M W 6:10-7:25. (V)

ANT V 1010x. The Human Species: Its Place in Nature. Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution, specifically, Darwin's Theory of Evolution; Mendel's principles of inheritance; major patterns of organic evolution; rimate behavior, ecology, and evolution; and the fossil remains and evolutionary trends in human evolution.—D. Melnick.

3 points. Tu Th 10:35-11:50. (V)

#### ANT V 3005x. Peoples of Africa.

Survey of African cultures, with intensive analysis of selected peoples. Not offered in 1984-85.

3 points. (V)

# Anthropology

## **ANT V 3006y. Peoples of Southeast Asia.**

Selective survey of traditional and changing Southeast Asian societies; emphasis on cultural, social, and ecological dimensions of tribal and peasant life.—Instructor to be announced.

*Offered in alternate years. Not offered in 1984-85.*  
3 points. (V)

## **ANT V 3007x. Peoples of Europe.**

Intensive analysis of selected ethnographic studies reflecting cultural variation and change in European societies.—Instructor to be announced. *Not offered in 1984-85.*

3 points. (V)

## **ANT V 3009y. Peoples of the Middle East.**

Survey of culture areas from North Africa to Pakistan, with intensive analysis of selected studies.—E. Combs-Schilling.

3 points. *M W 2:40-3:55.* (V)

## **ANT V 3010y. Native South America.**

Introduction to the peoples and cultures of native South America, including pre-history, ecology, social relations, belief systems, effects of the Spanish conquest, and the impact of modern change.

*Not offered in 1984-85.*

3 points. (V)

## **ANT V 3011y. Social Organization.**

Institutions and organization of social life, particularly in non-literate societies; kinship and locality in the structuring of society.—J. Vincent.

*Prerequisite: An introductory anthropology course.*  
3 points. *Tu Th 10:35-11:50.* (V)

## **ANT V 3014x. Peoples of East Asia.**

Introduction to the contemporary societies of China, Japan, and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies.—M. Cohen.

*Not offered in 1984-85.*

3 points. (V)

## **ANT V 3016y. Peoples of the Pacific.**

Comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations; emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area.

*Not offered in 1984-85.*

3 points. (V)

## **ANT V 3018x. The Development of Urbanism: An Archaeological Perspective.**

Development and maintenance of prehistoric urban societies, drawing upon examples from both the New and Old Worlds; relationships between developmental processes, environmental exploitation, urban-rural interactions, and the internal dynamics and structure of the city itself.

*Not offered in 1984-85.*

3 points. (V)

## **ANT V 3020y. Men's and Women's Speech.**

Cross-cultural and cross-linguistic investigation of differences among men's and women's speech patterns as these are exemplified in literature, ethnographic texts, and actual utterances by speakers in various social settings; study of differences on the phonological, lexical, syntactic, and discourse levels; relation between cultural and linguistic patterns; variation across speakers and in time.

*Prerequisite: Course V 1001 or V 1002.*

*Not offered in 1984-85.*

3 points. (V)

## **ANT V 3021x. Sex Roles in Cross-Cultural Perspective.**

Consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures. Belief about sex and the sexes as well as the presence or absence of sex antagonisms.—N. Rothschild. *Not offered in 1984-85.*

3 points. (V)

## **ANT V 3024y. Changing Africa.**

Major forces at work in contemporary Africa, and examination of changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent.—E. Skinner.

*Not offered in 1984-85.*

3 points. (V)

## **ANT V 3025y. Law, Culture, and Society.**

Survey of law and order systems in Western and non-Western societies. Examination of the kinds of social control problems that societies of different levels of complexity confront and the solutions that those societies forward. Forms of conflict behavior, methods of dispute settlement, and substantive law content.—K. Newman.

3 points. *Th Th 2:40-3:55.* (V)



## **ANT V 3027y. Culture and the Individual.**

Development of personality in various cultural contexts: child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change.

*Not offered in 1984-85.*

*3 points. (V)*

## **ANT V 3029y. The Archaeology of the New World.**

Survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact; special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development.

*3 points. Not offered in 1984-85. (V)*

## **ANT V 3032x. The Archaeology of the Old World.**

Survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginnings of human culture to the dawn of first civilization.

*3 points. Not offered in 1984-85. (V)*

## **ANT V 3033y. Sociolinguistics.**

Speech considered as a social activity; the speech community; socially motivated linguistic change; ethnography of speaking; regional and social dialects; sex linked speech; the strategic use of language in varying speech events; analysis of natural discourse.—Instructor to be announced.

*3 points. M W 1:10-2:25. (V)*

## **ANT V 3034x. Ethnolinguistics.**

Linguistic categories and their relation to culture; systems of folk-classification and their analysis; linguistic representations of time, space and other systems of orientation; analysis of myths, stories, and other ethnographic texts; relationships between language and thinking.—A. Galin.

*3 points. M W 1:10-2:25. (V)*

## **ANT V 3036x. Peasant Societies.**

Introduction to pre-industrial agrarian social systems; patterns of community organization and the relationship between the community and the state.—M. Cohen.

*3 points. Tu Th 10:35-11:50. (V)*

## **ANT V 3037y. Societies in Transition.**

Analysis of the changes that have taken place in rural and urban societies since the nineteenth century with emphasis on cultural and institutional relations between localities, regions and states. Ethnographies from Europe, America and the Third World.

*Not offered in 1984-85.*

*3 points. (V)*

## **ANT V 3038y. Ethnic Relations in Changing Societies.**

Analysis and comparison of ethnic relations in settings of cultural pluralism with special reference to America, Europe and Third World countries.

*Not offered in 1984-85.*

*3 points. (V)*

## **Anthropology-Women's Studies**

### **ANW V3039x. Women in Third World Development.**

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies.—Instructor to be announced.

*Prerequisite: An introductory anthropology course or Women's Studies II or permission of the instructor. Not offered in 1984-85.*

*3 points. (V)*

## **ANT V 3042x. The Anthropology of Religion.**

Ideological systems of simple or preindustrial cultures; relations between religion and other aspects of culture.

*Prerequisite: An introductory anthropology course. Not offered in 1984-85.*

*3 points. (V)*

## **ANT V 3044y. Symbolic Anthropology.**

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—E. Combs-Schilling.

*3 points. Tu Th 2:40-3:55. (V)*

## **ANT V 3100y. Anthropology of Urban Life.**

Evolution of cities: a cross-cultural view of kinds of urban formations; examinations within an anthropological context of various aspects of urban life.—K. Newman.

*Not offered in 1984-85.*

*3 points. (V)*

## **ANT V 3128x. Medical Anthropology.**

Examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies.—L. Crandon.

*3 points. Tu Th 6:10-7:25. (V)*

# Anthropology

## **ANT V 3201x. Introductory Survey to Biological Anthropology.**

Human species in biological and evolutionary perspective with particular emphasis on the behavioral and morphological aspects of our evolution. Topics to be covered include evolutionary theory and basic population genetics, non-human primate behavior, fossil evidence for human evolution, human variation, and interactions of biology and culture.—R. Holloway.

3 points. Tu Th 4:10-5:25. (V)

## **ANT V 3203x. Primate Behavior.**

Introduction to the study of primates, emphasizing social behavioral patterns as adaptation within ecological constraints; primate taxonomy, fossil record, social behavior, uses and abuses of primate studies for understanding human evolution and behavior.—D. Melnick.

*Prerequisite:* Course V 3201 or permission of the instructor. Not offered in 1984-85.

3 points. (V)

## **ANT W 3204y. Dynamics of Human Evolution.**

Seminar focusing on recent advances in the study of human evolution. Topics include: recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology.—D. Melnick.

*Prerequisite:* V 3201 or the permission of the instructor.

3 points. Tu 6:10-8:00. (V)

## **ANT C 3830x. Colloquium: An Archaeological Perspective on Cultural Evolution.**

A critical examination of theories dealing with the evolution of complex societies in prehistory. Topics include the development of urbanism, hydraulic agriculture, militarism, population pressure, and the role of religious ideology in the transformation from egalitarian to state-level societies.

Not offered in 1984-85.

4 points. (V)

## **ANT W 4111x. Latin American Communities.**

The kinds and distribution of small communities in Latin America, including peasant villages, haciendas and plantations, and towns. Their relation to the larger society as well as their internal workings.—R. Hassig.

3 points. M 6:10-8:00 plus hour to be arranged. (V)

## **ANT W 4122x. Ecological Anthropology.**

Introduction to the study of human ecology as a multi-disciplinary undertaking. Emphasis on making cultural practices intelligible by relating them to the material world in which they develop or occur.

*Prerequisite:* V 3121 or the equivalent.

Not offered in 1984-85.

3 points. (V)

## **ANT W4130x. Primitive Arts and Industries.**

The basic manual and mechanical arts of mankind in the nonindustrial world, such as hunting, gathering, farming, and the production of domestic utensils, houses, and clothing, considered from the standpoint of techniques, materials, and cultural-historical origins.—R. S. Solecki.

3 points. Th 2:10-4:00 plus hour to be arranged. (V)

## **ANT W4150y. Ethnology of Native Americans.**

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of Native American affairs and the Native American minority today.—P. Rubel.

3 points. Tu Th 9:00-10:25. (V)

## **ANT W4187y. South Asian Society and Culture.**

An examination of the peoples, institutions, and problems of contemporary South Asia. Among the topics to be covered are: village ecology and economy, community structure, family and kinship, the caste system, village-level religion, and culture change.—M. Klass.

3 points. M W 2:40-3:55. (V)

## **ANT W 4346x. Laboratory Techniques in Archaeology.**

Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc. Should be taken simultaneously with W 4348x.—R. Solecki.

*Enrollment limited to 15 students. Not offered in 1984-85.*

3 points.

## **ANT W 4347x. Economic Anthropology.**

Approaches to the study of resource allocation: production, consumption, and distribution in tribal and peasant societies. Contemporary theoretical issues and selected ethnographic accounts.—M. Klass.

Not offered in 1984-85.

3 points. (V)



**ANT W 4348x. Field Archaeology.**

Introduction to archaeological techniques and methods of excavation.

*Permission of the instructor required.*

*Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food in the field. Should be taken simultaneously with W 4346x.*

*Not offered in 1984-85.*

*3 points. (V)*

**ANT W 4350y. Cultural Resource Management.**

Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that public archaeology makes to research in the discipline.—N. Rothschild.

*Not offered in 1984-85.*

*3 points. (V)*

**ANT W 4352x. Museology.**

Methods and procedures of artifact conservation, cataloguing and display. Use of collections for research purposes.—N. Rothschild.

*3 points. Tu 10:00-1:00, Laboratory hours to be arranged. (V)*

**ANT W 4354y. Archaeology of New York City.**

The archaeology of Greater New York City and environs, from earliest Palaeo-Indian times to the early colonization of New York. Lectures illustrated from original research material, with visits to museums, and field trips to local archaeological sites. No previous coursework in archaeology necessary.

*Not offered in 1984-85.*

*3 points. (V)*

**ANT W 4625x. Anthropology and Film.**

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.—P. Rubel.

*Not offered in 1984-85.*

*3 points.*

**Dance DAN BC 2568y. Dance and Movement: An Anthropological Approach.**

An investigation of the theories and methods used to observe and analyze dance and movement in symbolic and social contexts. Critical examination of texts from the literature of anthropology and of dance. Course includes film viewing, practice in making observations, and a field work project.—C. Novack.

*Not offered in 1984-85.*

*3 points.*

**FOR MAJORS ONLY****ANT V 3041x. History of Anthropological Theory.**

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski, and Radcliffe-Brown.—J. Vincent.

*3 points. Tu Th 10:35-11:50.*

**ANT BC 3142x, y. Colloquium: Current Anthropological Theory.**

Intensive analysis of selected theoretical approaches and issues in anthropology.

*Permission of the instructor required.*

*Enrollment limited to ca. 16 students.*

*4 points.*

**ANT BC 3142x. I. Male and Female in Cultural Analysis.**

An examination of male and female perspectives as they affect analysis of social structure, symbolism, and political authority.—A. Rosman.

*3 points. W 2:10-4:00.*

**ANT BC 3142y. II. The Eclectic Approach in Anthropology.**

An argumentative inquiry into the nature of theory in contemporary anthropology from the mono-theoretical (such as Cultural Materialism) to the eclectic—M. Klass.

*3 points. M 9:00-10:50.*

**ANT BC 3142y. III. Anthropological and Archaeological Approaches to the Study of Cities.**

What are cities? How do they develop? How do people live in them? New York City will serve as a laboratory.—N. Rothschild.

*Not offered in 1984-85.*

**BC 3142y. IV. Ethnicity and Ethnic Relations.**

An investigation of the notion of "marginality" which focuses on one ethnographic case, such as the Gypsies, and examines their relationship to the societies in which they exist.—J. Vincent.

*Not offered in 1984-85.*

# Anthropology

## **ANT V 3500y. Colloquium: Problems in Structuralism.**

Reading and research in anthropological theories of structuralism; review of works of Claude Lévi-Strauss, Edmund Leach, and others in relation to relevant work in linguistics, psychology, sociology and philosophy.—R. Murphy.

*Enrollment limited to 20 students.*

*4 points. W 2:10-4:00.*

## **ANT V 3700x. Colloquium: Anthropological Research Problems in Complex Societies.**

Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from Africa, Latin America, Asia, Europe, and North America.—K. Newman.

*4 points. Tu 11:00-12:50.*

## **ANT V 3720x. Colloquium: Marxism and Ethnography.**

Examination of some basic sources of Marxist social theory, their implications for anthropological theory and method, and selected ethnographies influenced by or relevant to them.

*Enrollment limited to 20 students. Permission of the instructor required.*

*Not offered in 1984-85.*

*3 points.*

## **ANT V 3825x. Seminar: Archaeology and Religion.**

Survey of the nature and role of religion in prehistoric societies from the time of its earliest manifestations in the archaeological record through the rise of ancient civilizations. Archaeological data as well as ancient textual evidence of religious ideology and activity in prehistoric societies throughout the world. The relationship between religion, political structure, and economy, the diffusion of religious ideologies, and the role of religion in the rise of centralized societies.

*Prerequisite: Course V 1001, V 1002. Permission of the instructor required.*

*Not offered in 1984-85.*

*4 points.*

## **ANT V 3920x. Seminar: the Evolution of Prehistoric Economic Systems.**

A survey of the models and methods appropriate to analysis of the development of economic systems from the earliest societies to the rise of the ancient civilization. Problems considered include analysis of subsistence strategists, specialization of production, economic differentiation, and exchange systems from a variety of perspectives. Models and data will be drawn from archaeological, ethno-

archaeological, and ethnohistorical sources.—T. D'Altroy.

*Introduction to Archaeology or permission of the instructor required. Enrollment limited to 15 students.*

*4 points. W 2:10-4:00.*

## **ANT BC 3868y. Ethnographic Research in New York City.**

Seminar-Workshop on field research in New York City. Lectures, discussions and demonstrations of research methods of anthropology followed by supervised field research on selected ethnographic topics in a variety of urban settings.—P. Rubel.

*Permission of the instructor required.*

*Enrollment limited to ca. 16 students.*

*Field work required. Not offered in 1984-85.*

*4 points.*

## **ANT BC 3871x-ANT BC 3872y. Senior Research Seminar.**

Discussions and conferences on individual advanced research projects including those which have developed from students' participation in Anthropology BC 3868. Each student is engaged in independent research under the guidance of her Senior Essay Adviser. All students participating in the seminar may meet together periodically for joint discussion. During the Spring Term a final seminar meeting may be held at which students present their work prior to its submission as satisfying the Senior Research Essay requirement of the Department.—Staff.

*4 points. Hours to be arranged.*

## **ANT BC 3999x, ANT BC 3999y. Individual Projects.**

Research projects are planned in consultation with members of the department and work is supervised by the major's Research Essay adviser. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester. The final research paper is submitted to meet the Senior Research Essay requirement of the department.—Staff.

*Permission of the instructor required.*

*4 points. Hours to be arranged.*

## **GRADUATE COURSES**

Certain graduate courses given in the University are open to qualified majors with the consent of the department chairman and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences. As noted, graduate seminars may be used to satisfy the requirement of 2 colloquia and graduate area courses may be used to fulfill the area course requirement.



# Architecture

Office: 301B Barnard Hall

Telephone: 280-2118

**Associate Professor**

Susana A. Torre (Architecture Program Director)

**Assistant Professor**

Donna Robertson

**Adjunct Assistant Professors**

Deborah Nevins, Suzanne Stephens

Officers of the University offering courses listed below:

**Professor**

Robert A.M. Stern

**Associate Professor**

Dorothea Nyberg

**Assistant Professor**

Roy Strickland (Departmental Representative)

**Adjunct Assistant Professors**

Roger Ferri, Ann Kalla, Richard Oliver, Eugene Santomasso, Henry Smith-Miller

**Special Lecturer in Architecture**

Mario Salvadori

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social, and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research, and students are required to choose a “cluster” of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser at the earliest possible date to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

**REQUIREMENTS FOR THE MAJOR**

The major in Architecture is required to complete 15 courses, at least six of which should be Barnard courses:

4 Studio courses (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V 3103	<i>Freehand Drawing</i>
ARC V 3101	<i>Architectural Graphics</i>
ARC V 3201-ARC V 3202	<i>Elements of Architectural Design I and II</i>

7 History/Theory courses (5 Lectures and 2 Seminars)

Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

5 Lecture courses from the following list:

ARC C 1001	<i>Introduction to Architecture</i>
ARC C 3301	<i>The Beginning of Architecture</i>
ARC C 3302	<i>Architecture in the Western World</i>
ARC A 4110	<i>Building of Buildings</i>
Art History BC 3661	<i>European Architecture from the Renaissance to 1700</i>
Art History BC 3669	<i>French Architecture 1500-1800</i>
Art History BC 3670	<i>European Architecture from the 18th Century to 1900</i>
Art History C 3833	<i>Modern Architecture</i>

# Architecture

2 Seminars to be taken in the Junior or Senior Year:

ARC BC 3934	<i>Building Types Seminar</i>
ARC V 3901	<i>Senior Seminar I or II</i>
Art History C 3666	<i>Architecture since 1945</i>
Art History BC 3993	<i>Visionary Architecture, 1700 to the Present</i>
ARC BC 3425	<i>The History of Landscape Design</i>
ARC BC 3431	<i>Architectural Criticism in the Essay Form</i>
Art History BC 3996	<i>Art of the Rococo</i>
Art History BC 3998	<i>Social and Political Functions of Architecture</i>

1 of the following courses with laboratory:

Environmental Science BC 1001, BC 1002	<i>Environmental Science</i>
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3 courses, chosen in consultation with the adviser from one area of study or cluster such as Anthropology, Art History, Economics, Environmental Conservation and Management, Geography, History, Philosophy, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC 3216	<i>Advanced Architectural Graphics</i>
ARC C 3211	<i>Intermediate Design I</i>
Physics V 1003	<i>General Physics</i>
Mathematics V 1100	<i>Brief Calculus</i>

## REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses: Architecture BC 3114, V 3103 and 3 History/Theory courses to be chosen in consultation with the adviser.

Note: All studio, seminar, and upper level courses require the permission of the instructor and student sign-up before registration.

### ARC C 1001y. Introduction to Architecture.

Intended for prospective architecture majors as well as those interested in acquiring a general familiarity with architecture. Basic concepts and representative buildings. Lectures, readings, discussions and field trips.—R. Oliver.

*Recommended in the sophomore year.*  
3 points. M 1:00-2:00, W 12:00-1:50.

### ARC C 3301x. The Beginnings of Architecture.

Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—E. Santomaso.

*Recommended in the sophomore year.*  
3 points. Tu Th 12:00-2:00.

### ARC C 3302y. Architecture in the Western World.

Continuation of Course C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—E. Santomaso.

*Recommended in the sophomore year.*  
3 points. Tu Th 12:00-1:50.

### ARC A 4110x. The Building of Buildings: A Survey of Structural Principles.

Introduction to basic concepts of structural action by means of models, slides, and films. Elementary and refined concepts are qualitatively considered without the use of mathematical tools. Special consideration to modern structural materials and to both classical and contemporary structural systems.—M. Salvadori.

*Recommended in the sophomore year.*  
2 points. Tu 6:10-8:00.

### ARC V 3901y. Senior Seminar.

Readings, individual class presentations, and written reports. Instructors to be announced.

*Open to architecture majors only.*

3 points.  
Section I M 11:00-1:00.  
Section II F 9:00-11:00.

### ARC BC 3425x. The History of Landscape Design.

Landscape design and theory since the Renaissance; analysis of program, composition and elements of major public and private gardens in Europe and America. The education and profession of garden designers such as Lenotre, C. Brown, F. L. Olmstead, G. Jekyll, V. Sackville-West and B. Farrand.—D. Nevins.

3 points. F 11:00-12:50.



# Architecture

## **ARC BC 3431x. Architectural Criticism in the Essay Form.**

Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present.—S. Stephens.

3 points. W 11:00-12:50.

## **ARC BC 3934y. Building Types Seminar.**

Contextual, spatial, esthetic and structural analysis of buildings designed to serve the purpose of *culture* (libraries, museums) and *consumption* (markets, stores, exhibition halls) from the early Renaissance to the present.—S. Torre.

*Permission of the Instructor.*

Not offered in 1984-85.

4 points.

## **STUDIO COURSES**

### **ARC V 3103x, V 3103y. Freehand Drawing.**

Drawings from nature and architecture; spatial notations; image systems and their use; research in three dimensions.—R. Ferri.

*Recommended in the sophomore year.*

3 points.

Section I M W 9:00-10:50.

Section II Tu Th 9:00-10:50.

### **ARC V 3101x, ARC V 3101y. Architectural Graphics.**

Introduction to a two- and three-dimensional graphics vocabulary with emphasis on measured drawing techniques and scale model construction.—A. Kalla.

*Recommended in the sophomore year.*

3 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 11:00-12:50.

### **ARC BC 3216y. Advanced Architectural Graphics.**

Workshop continuation of V3101x, y, employing a wider range of media and drawing techniques in the study of texture, composition, light, and form.—A. Kalla.

*Limited to 12 students.*

Not offered in 1984-85.

3 points.

### **ARC V 3201x. Elements of Architectural Design I.**

Workshop introduction to architecture: fundamental problems of enclosure design through simple exercises requiring drawings and models; lectures, discussions, and studio work.—Instructors to be announced.

*Prerequisite: V 3103 or V 3101*

4 points. M W 9:00-11:50.

### **ARC V 3202y. Elements of Architectural Design II.**

Workshop continuation of Course C3201. Field trips and lectures organized in relation to the work program.—S. Torre and staff.

*Prerequisite: V 3201.*

4 points. M W 9:00-11:50.

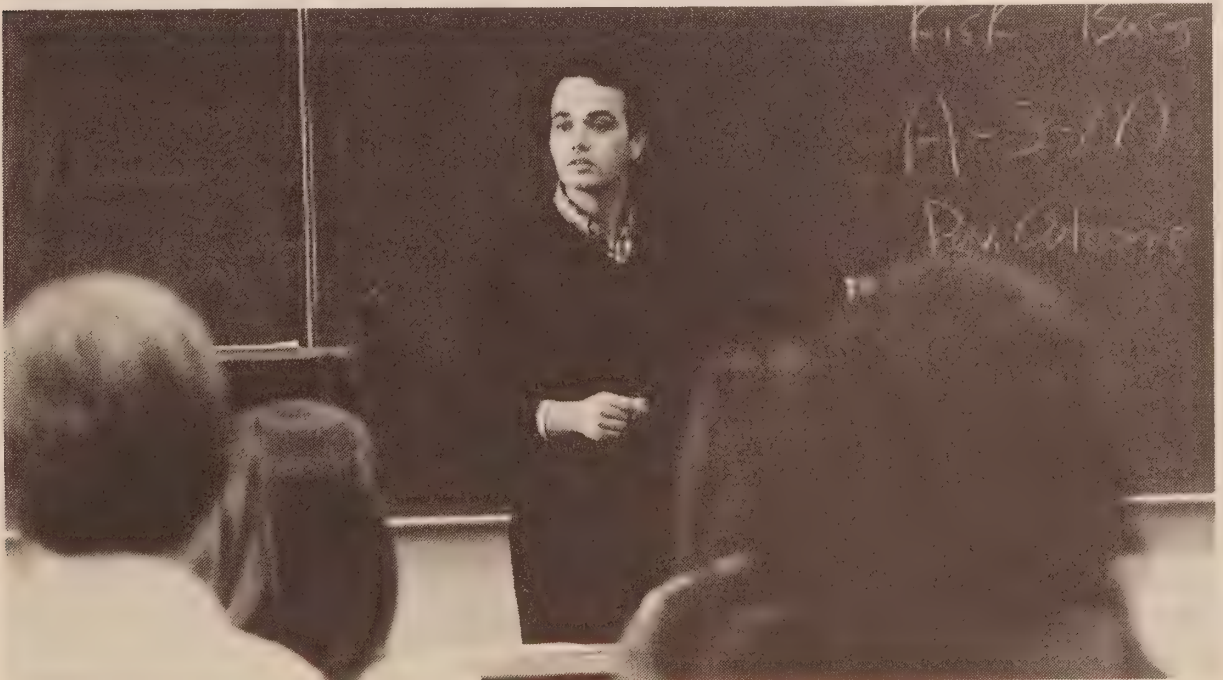
### **ARC C3211x. Intermediate Design I.**

Further exploration of the design process. Programs of considerable functional and contextual complexity are undertaken.—H. Smith-Miller.

*Candidates for admission to the course are chosen by interview during the spring term of the junior year. Eligible students are requested to consult the program adviser for Barnard College before April 1.*

*Prerequisites: V 3202 and permission of the program adviser.*

4 points. Tu Th 9:00-11:50.



# Art History

Office: 301 Barnard Hall

Telephone: 280-2118

## Professors

Barbara Novak, Helen Goodhart Altschul Professor (Chairman, Autumn), David Freedberg

## Adjunct Professor

Brian O'Doherty

## Associate Professors

Dorothea Nyberg,<sup>1</sup> Jane Rosenthal (Chairman, Spring)<sup>1</sup>

## Assistant Professors

Leila Kinny, Margaret S. Nesbit

Other officers of the University giving instruction at Barnard College:

## Assistant Professors

Stephen Gardner, Dana Goodgal

Other officers of the University offering courses listed below:

## Professors

James Beck, Richard Brilliant, George Collins,<sup>2</sup> Joseph Connors, Howard McP. Davis, Alfred Frazer, Howard Hibbard, Miyeko Murase, Esther Pasztory,<sup>2</sup> Edith Porada, Theodore Reff, David Rosand, Allen Staley

## Adjunct Professors

Carl Dauterman, Colta Ives, Linda Seidel

## Assistant Professors

Suzanne Blier, Beth Cohen, Jerrilyn Dodds, Michael Marrinan<sup>1</sup>

## Visiting Associate Professor

Vidya Dehejia

<sup>1</sup>Absent on leave, Autumn Term

<sup>2</sup>Absent on leave, Spring Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

## REQUIREMENTS FOR THE MAJOR

Each major chooses an adviser who assists her in planning a program that incorporates personal interests while meeting departmental requirements. Nine courses are required for the major. Art History BC 1001, 1002, *Introduction to the History of Art*, is strongly suggested as an introduction to the field though it may be waived if a student has sufficient previous training. The nine courses should include at least one in each of the following periods—ancient, medieval, renaissance, baroque and modern—and two seminars. Of these, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Oriental art and who will write their senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.



A senior essay is required of the major. With the chairman's permission, seniors may elect Art History BC 3999, *Independent Research*, for the senior essay. Art History BC 3999 may not be used to fulfill the seminar requirement, but may be taken in addition to the two required seminars. The senior essay may be an expansion of a seminar paper.

Students who plan to undertake graduate work should obtain a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

## REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001 and BC 1002, and one each in three of the following periods: ancient, medieval, renaissance, baroque, and modern.

## COURSES OF INSTRUCTION

### ARH BC 1001x, ARH BC 1002y.

#### Introduction to the History of Art.

Brief examination of the techniques of visual analysis, followed by a chronological survey of the major period styles of Western European art. Emphasis on the interpretation of form and content in the works studied and on the correlation of the visual arts with their respective cultural environments. Autumn Term: Greek and Roman art, medieval art. Spring Term: Renaissance to modern art.—L. Kinney.

*Either course may be taken separately.*

3 points. M W 1:10-2:25. (I)

### ARH W 3030x. Primitive Art.

E. Pasztory.

3 points. Hours to be arranged. (I)

### ARH V 3080x. Pre-Columbian Art.

Survey of pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish Conquest.—E. Pasztory.

*Not offered in 1984-85.*

3 points. (I)

### ARH W 3133y. Islamic Art and Society.

Major monuments of a millennium of Arab and Persian art as an expression of the development and growth of Islamic civilization.—J. Dodds.

*Not offered in 1984-85.*

3 points. (I)

### ARH W 4358x. Art and Architecture of Medieval Spain.

The principal monuments of Christian and Islamic artistic traditions on the Iberian peninsula from the 6th to the 12th centuries. Emphasis on architecture and architectural decoration, with some discussion of manuscripts and wall painting. Attention will be given to the political, social, and cultural context of the works studied.—J. Dodds.

3 points. Th 4:10-6:00. (I)

### ARH W 3150y. Art and Architecture of the Ancient Near East.

Arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid period in the late first millennium B.C.—Instructor to be announced.

3 points. M W 6:10-7:25. (I)

### ARH V 3201x. Arts of China.

Survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods; arts of Central Asia and India as they affect the arts of China.—Instructor to be announced.

3 points. Tu Th 6:10-7:25. (I)

### ARH V 3203y. Arts of Japan.

Survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods with emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints.—M. Murase.

3 points. Tu Th 4:10-5:25. (I)

### ARH W 4127x. History of Indian Art.

Commencing with the cities of the Indus civilization in the third millennium BC, this wide-ranging survey will take us through the history of Buddhist, Hindu, and Islamic monuments of the Indian subcontinent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka are considered.—V. Dehejia.

3 points. Hours to be arranged. (I)

### ARH V 3246y. Myth and Art in Greece.

Changing representation of mythological and religious themes in Greek painting and sculpture from the late Geometric to the Hellenistic period; emphasis on the development of specific cycles of myths of heroes and gods with reference to their historical contexts; readings in ancient sources (in translation) and in modern criticism.—B. Cohen.

*Not offered in 1984-85.*

3 points. (I)

# Art History

## **ARH V 3248x. Greek Art and Architecture.**

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest.—R. Brilliant.

3 points. *Tu Th 2:40-3:55.* (I)

## **ARH V 3250y. Roman Art and Architecture.**

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West.—B. Cohen.

3 points. *Tu Th 2:40-3:55.* (I)

## **ARH W 4280x. Classical Mythology and the Western Tradition.**

Analysis of the representation of selected classical myths in Western art from Greek Geometric times to Picasso.—B. Cohen.

*Not offered in 1984-85.*

3 points.

## **ARH BC 3351x. Early Christian and Early Medieval Art.**

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture and painting under the patronage of church and state in Western Europe from the 4th through the 11th century.—J. Rosenthal.

*Not offered in 1984-85.*

3 points. (I)

## **ARH BC 3352y. Art of the Later Middle Ages.**

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Gardner.

3 points. *MW 2:40-3:55.* (I)

## **ARH W 3400x. Italian Renaissance Painting.**

The work of the major masters who flourished in the 15th and early 16th centuries with special emphasis given to Masaccio, Piero della Francesca, Leonardo da Vinci, Giovanni Bellini, Giorgione, Titian, and Michelangelo.—J. Beck.

*Not offered in 1984-85.*

3 points. (I)

## **ARH W 3420y. Italian Sculpture during the Renaissance.**

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.

3 points. *Tu Th 6:10-7:25.* (I)

## **ARH V 3437y. Italian Painting of the Sixteenth Century.**

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and

Mannerism. Emphasis on major figures.—D. Rosand.

*Not offered in 1984-85.*

3 points.

## **ARH V 3500x. European Painting since the Renaissance I.**

Baroque and Rococo painting in Italy, France, England, Flanders, Holland and Spain from 1600 to the middle of the 18th century, with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velazquez, Watteau, Hogarth, and Tiepolo.—Instructor to be announced.

3 points. *Tu Th 2:40-3:55.* (I)

## **ARH V 3501y. European Painting since the Renaissance II.**

Painting from the late 18th century to 1900; Neoclassicism, Romanticism, Realism, Impressionism and Post-Impressionism. Emphasis on developments in France, from David to Cézanne and Seurat, with attention to Goya, Constable, and Turner as well.—L. Kinney.

*Not offered in 1984-85.*

3 points. (I)

## **ARH W 3633y. Italian Renaissance Painting.**

Painting in Italy from the revival of painting in the late 13th century to the early 16th century; emphasis on the Early Renaissance and on the works of Giotto, Masaccio, and Piero della Francesca. High Renaissance, with stress on Leonardo da Vinci and Michelangelo and their role in the continuity of tradition.—H. Davis.

3 points. *Tu Th 10:35-11:50.* (I)

## **ARH W 4448y. Michelangelo.**

Emphasis on painting and sculpture: the early works, the Tomb of Julius II, the Sistine Chapel ceiling, the Medici Chapel, late painting, and sculpture. Michelangelo studied as an artist who transcends his period, and as the outstanding creative force in that period with influence for both good and bad on younger artists.—H. Hibbard.

*Not offered in 1984-85.*

3 points. (I)

## **ARH W 4565y. Flemish Painting from Bruegel to Rubens.**

D. Freedberg.

3 points. *W 2:10-4:00.* (I)

## **ARH W 3688x. Northern European Painting.**

Renaissance humanism and realism, the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, Van der Weyden, Bosch, Bruegel, and Rembrandt.—H. Davis.

3 points. *Tu Th 10:35-11:50.* (I)



**ARH BC 3661x. European Architecture from the Renaissance to 1700.**

Development of Renaissance and Baroque architecture in Italy, France, Germany, and England from the 15th century to 1700. Architects studied include Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, and Wren.—D. Nyberg.  
*Not offered in 1984-85.*

3 points. (I)

**ARH BC 3669x. French Architecture 1500-1800.**

The cohesive tradition of French architecture, with major emphasis on Delorme, Salomon de Brosse, Lemercier, Mansart, Le Vau, Perrault, Hardouin-Mansart, Meissonier, Servandoni and Soufflot.—D. Nyberg.

*Not offered in 1984-85.*

3 points. (I)

**ARH BC 3670y. European and American Architecture from the Eighteenth Century to 1900.**

Development of 18th-century architecture in Europe and America; interaction of historical styles and new structural techniques in the 19th century.—D. Nyberg.

3 points. Tu Th 2:40-3:55. (I)

**ARH V 3748y. Eighteenth Century Art in Europe.**

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background.—M. Marrinan.

*Not offered in 1984-85.*

3 points. (I)

**ARH W 3600x. Nineteenth Century Art.**

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements.—A. Staley.

3 points. M W 4:10-5:25. (I)

**ARH W 3650y. Twentieth Century Art.**

Major trends and sources of 20th century painting, sculpture and architecture with emphasis on understanding the cultural environment and related developments.—Instructor to be announced.

3 points. M W 4:10-5:25. (I)

**ARH BC 3678x, BC 3679y. Modern Art.**

Consideration of art—principally but not exclusively painting—in the past century. Autumn Term: from the origins of modern painting until after World War I. Spring Term: from the period between the Wars onward.—M. Nesbit.

BC 3678 or its equivalent recommended as prepa-

ration for BC 3679.

3 points. Tu Th 10:35-11:50. (I)

**ARH BC 3680y. Symbolism: Art Theory and Practice 1885-1905.**

Explorations of Symbolist theory in late 19th century art, from Seurat through early Picasso. The course will focus on artistic activity in Paris, Brussels, London and Vienna, and will consider aspects of Neo-Impressionism, Synthetism, Pre-Raphaelitism, Art nouveau, and the Secession styles.—L. Kinney.

*Not offered in 1984-85.*

3 points. (I)

**ARH F 3682y. Museum Studies: Prints and Photographs of the Nineteenth Century.**

Original works of master printmakers and photographers will be examined with particular attention to problems of connoisseurship. Study will focus on major artists well represented in the Metropolitan Museum of Art, among them Corot, Degas, Eakins, Whistler, Steichen.—C. Ives and W. Naef.

*Permission of the instructor required. Limited to 18 students. Not offered in 1984-85.*

3 points.

**ARH F 3684y. Five Great Printmakers: Durer, Rembrandt, Piranesi, Goya, Degas.**

Masters' prints are discussed in terms of subject matter, techniques, and stylistic development. Firsthand study of originals in the Metropolitan Museum's collection with attention to connoisseurship.—C. Ives.

*Not offered in 1984-85.*

*Enrollment limited to 15 students.*

3 points.

**ARH F 3690x. Museum Studies: European Furniture History.**

A comparative study of characteristic 18th century furniture styles in France, England, and America, as exemplified in period rooms of the Metropolitan Museum of Art. Class limited to twenty students; meets at the Metropolitan Museum.—C. Dauterman.

3 points. Tu 5:30-8:30.

**ARH C 3838x. Twentieth Century Architecture.**

Tendencies in 20th century architecture as related to other cultural developments; major contemporary contributions.—Instructor to be announced.

3 points. M W 12:00-1:15. (I)

**ARH W 4624x. American Painting 1760-1900.**

Principal ideas behind the American painting tradition with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science and literature.—B. Novak.

3 points. Tu Th 10:35-11:50.

# Art History

## **ARH W 4711x. The Architecture of Richardson, Sullivan, and Wright.**

The work of the three great masters of American architecture set into the context of developments in American society 1875-1950. Particular emphasis on the development of the Chicago School.—J. Connors.

*Not offered in 1984-85.*

*3 points.*

## **SEMINARS**

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 815 Schermerhorn.

## **ARH C 3933x. Medieval Art at the Cloisters.**

Most meetings at the Cloisters. Consult departmental office for location of first meeting.—J. Dodds.

*Prerequisite: Art History 3352y or the equivalent.*

*4 points. Hours to be arranged. (I)*

## **ARH BC 3953y. The Art of Medieval Manuscript Illumination.**

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

*Not offered in 1984-85.*

*4 points.*

## **ARH W 3935x. Renaissance Art in Florence.**

A detailed study and analysis of the art and architecture of Florence from 1280-1512 with emphasis on contemporary literary, social and political currents.—J. Beck.

*Not offered in 1984-85.*

*4 points.*

## **ARH BC 3977x. Modernism and Sexuality: The Problem of Gender in Matisse and Picasso.**

A study of the problem of the perception and the representation of the female image, especially the nude, in modern art, concentrating on the work of Matisse and Picasso.—M. Nesbit.

*Prerequisite: Art History 3678x or 3679y, or permission of instructor.*

*4 points. F 2:10-4:00.*

*(I)*

## **ARH BC 3996y. Arts of the Rococo.**

Painting, sculpture, and architecture of the first half of the 18th century in light of the international culture of Europe; emphasis on Watteau, Chardin, Meissonnier, Boffrand, Juvara, Specchi, and

Hawksmoor.—D. Nyberg.

*Enrollment limited to 10 students.*

*Not offered in 1984-85.*

*4 points.*

## **ARH W 3940y. Aspects of Neo-Classicism.**

An investigation of the sources, theories, and development of Neo-Classicism. Special focus on the international character of the movement and its interrelationships with contemporary political and social currents. Oral and written reports.—M. Marrinan.

*Not offered in 1984-85.*

*4 points.*

## **ARH W 3950y. Constable, Turner, and the Romantic Landscape.**

The main figures in English landscape painting in the first half of the 19th century with some consideration of related developments in America and on the European continent.—A. Staley.

*Not offered in 1984-85.*

*4 points.*

## **ARH C 3962y. Abstract Expressionism.**

Historical and critical examination of the New York School in the 1940s-60s, with special attention to the painting of Gorky, de Kooning, Pollock, Hofmann, Newman, Rothko, Motherwell, and to the criticism of Rosenberg, Greenberg, and Hess.—D. Rosand.

*Prerequisite: Junior standing, one course in modern art.*

*4 points. W 11:00-12:50.*

*(I)*

## **ARH BC 3971y. Theories of Photography in the Twentieth Century.**

A survey of the major theories of photography in Europe and America, and an examination of their relation to one another, as well as their relevance to photographs.—M. Nesbit.

*Prerequisite: Art History 3678x or 3679y desirable. Not offered in 1984-85.*

*4 points.*

*(I)*

## **ARH W 3975x. Portraits.**

The motif of portraiture in Western art from antiquity to modern times. Discussion of principal motifs, themes, and means of expression. Short papers and reports, museum visits.—R. Brilliant.

*Not offered in 1984-85.*

*4 points.*

## **ARH BC 3982y. The Literature of Art.**

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars



(Baudelaire, Ruskin, Huizinga, Wolfflin, Woringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux, Kubler, Sontag).—D. Goodgal.

*Enrollment limited to 16 students. Permission of the instructor required.*

*4 points. W 11:00-12:50.*

## **ARH BC 3985y. Introduction to Connoisseurship.**

Factors involved in judging works of art, with emphasis on paintings; materials, deterioration, damage, restoration; attribution; replicas, copies, imitations, and fakes; questions of relative quality. Meetings at the Metropolitan Museum of Art.—D. Freedberg.

*Enrollment limited to 14 senior majors. Permission of the instructor required.*

*Not offered in 1984-85.*

*4 points.*

## **ARH BC 3986x. Art Criticism.**

Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism.—B. O'Doherty.

*Enrollment limited to 15 students.*

*Not offered in 1984-85.*

*4 points.*

## **ARH BC 3987x. Impressionism and Post-Impressionism.**

### **I. Degas.**

Study of Degas's work with special attention to the social context of his depictions of women and of urban entertainment. Emphasis on his working methods as revealed in works in New York collections and current exhibitions.—L. Kinney.

*Prerequisites: V 350I, W 3600, or equivalent.*

*4 points. Tu 2:10-4:00. (I)*

### **II. Seurat.**

A discussion of the major works of the painter in the context of Symbolist theory, color theory, and urban life in Paris.—L. Kinney.

*Not offered in 1984-85.*

*4 points.*

### **III. Berthe Morisot and her Contemporaries.**

Berthe Morisot's role within the Impressionist movement, her relationship to contemporaries, including Manet, Mallarmé, Mary Cassatt, and the problem of women artists in the 19th century will be stressed.—L. Kinney.

*Not offered in 1984-85.*

*4 points.*

## **ARH C 3970y. Picasso.**

Historical context, personal content, artistic sources and stylistic development of Picasso's art. Emphasis on the study of original works in New York museums.—T. Reff.

*Prerequisite: Junior standing, one course in 20th century art, and permission of the instructor.*

*Not offered in 1984-85.*

*4 points.*

## **ARH W 3988x. Approaches to Architectural History.**

In-depth examination of some of the major methods of architectural history; formal analysis, archaeological reconstruction; structure, patronage, role of architectural graphics, urbanism. Topics will be drawn from the whole range of architectural history.—J. Connors.

*Not offered in 1984-85.*

*4 points.*

## **ARH BC 3989y. The Art Film.**

Examines the ways in which filmmakers approach the visual arts, using leading examples of films on art. Films on Gauguin, Van Gogh, Edward Munch, Jackson Pollock, Christo and others. Filmmakers include the Maysles brothers, Perry Miller Adato, Barbara Rose, Lucy Jarvis, Danny Lyon, Michael Blockwood and Brian O'Doherty. Papers and criticism will be part of the course work.—B. O'Doherty.

*4 points. M 10:00-12:00.*

## **ARH BC 3993x. Visionary Architecture, 1700 to the Present.**

Seminar topics chosen from among the many influential architect-dreamers affecting architectural works of Europe and America. Examples: Boullee, Ledoux, Pugin, Gaudi, Sant-Elia, Safdie, Soleri, Kahn.—D. Nyberg.

*Not offered in 1984-85.*

*4 points.*

## **ARH BC 3998y. Social and Political Functions of Architecture.**

Religious architecture, funeral monuments, the architecture of kingship and of the French and American republics.—D. Nyberg.

*4 points. F 11:00-12:50.*

## **ARH BC 3999x, BC 3999y. Independent Research for Seniors.**

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.

*4 points. Hours to be arranged.*

# Program in the Arts

Office: 204 Barnard Hall Annex

Telephone: 280-2952

This program is supervised by the Committee on the Program in the Arts:

**Professor of Art History**

Barbara Novak

**Professor of Dance**

Jeanette Roosevelt

**Professor of English (Writing)**

Barry Ulanov (Chairman)

**Professor of English (Theatre)**

Kenneth Janes

**Professor of Music**

Hubert Doris

**Program Coordinator**

Deborah Loomis

**Advisers for the Concentrations**

Dance                      Jeanette Roosevelt, 203 Barnard Hall Annex

Music                      Hubert Doris, 409 Milbank Hall

Theatre                      Luz Castaños, 230 Milbank Hall

Visual Arts                      Susan Crile, 305 Barnard Hall

Writing                      Barry Ulanov, 408D Barnard Hall

The Program in the Arts is offered for a limited number of students who are gifted in one of the performing or studio arts and who wish both to continue the development of their skills and to obtain a liberal education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as visual arts studio, music as a performing art, the dance in all its aspects, theatre as a performing art or as a discipline of literary scholarship, and writing in all its branches.

The Program draws upon the ample resources in the arts which New York City affords, both in opportunities for majors to study with master teachers and in bringing artists to the campus to work with students. Attendance at concerts and dance performances and visits to museums and galleries in the city allow a continuing interaction with the arts.

## REQUIREMENTS FOR THE MAJOR

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to seek the counsel of advisers as early as possible in shaping their programs so as to include courses in at least two arts other than that in which they expect to concentrate. Recommended courses include: Art History BC 1001, BC 1002; Dance BC 2566; English BC 3103, BC 3104, etc.; English BC 3129; and Music BC 1001-BC 1002. Admission is based upon application to be made before March 15 of the sophomore year. Applicants provide supporting evidence of their individual skills. There are broad general requirements and special ones in each of the disciplines, but each student's program is shaped individually.

Students accepted as majors may take classes with artist-teachers in New York City.

Each student is required to take the three courses offered by the Program:

Arts BC 3031	<i>Imagery and Form in the Arts</i>
Arts BC 3351	<i>Junior Colloquium</i> and
Arts BC 3591	<i>Senior Seminar</i>



# Program in the Arts

In lieu of a senior thesis, majors in the Program offer an equivalent demonstration of mastery in the discipline: dancers present concerts; musicians perform solo recitals; theatre majors work as actors, designers, directors, or in a combination of these in a theatrical presentation; writers submit portfolios of stories or poems or both; visual artists hang shows of their work.

Requirements of the various concentrations within the Program are outlined in the following lists. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

## REQUIREMENTS FOR THE MINOR

No minor is offered in the Program in the Arts.

## COURSES OF INSTRUCTION

### PIA BC 3031x. Imagery and Form in the Arts.

The operation of imagery and form in dance, music, theatre, visual arts, and writing; students are expected to do original work in one of these arts.—A. Brody.

3 points. M 2:10-4:00. Conference hour to be arranged.

### PIA BC 3351y. Junior Colloquium.

An interdisciplinary consideration of a crucial period in the history of the arts. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. Consideration of style in the various arts and major figures in the period whose innovations in style or inventions in technique led to new forms. Special attention to developing skills in writing and discussion and equipping students to deal with the special problems that accompany the examination of art. Theme for 1984-85: The arts of Romanticism.—H. Doris, J. Roosevelt, and guests.

4 points. M 2:10-4:00.

### PIA BC 3591x. Senior Seminar.

Contemporary issues in the arts, with reports and projects leading to a thesis or performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1984-85: Surrealism.—J. Roosevelt and guests.

4 points. Tu 4:10-6:00.

## STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y, are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative. Classes are limited to 18 students. Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20.00 for any two-

point course to \$45.00 for a three-point course in printmaking.

### PIA BC 2003x, PIA BC 2004y. Studio Painting.

Studio courses in painting with acrylic and oil; supplementary instruction in drawing and the use of color. Emphasis on individual development.—A. McCoy.

2 points. Th 2:10-6:00.

### PIA BC 2005x, PIA BC 2006y, PIA BC 2007x, PIA BC 2008y. Painting.

Basic skills developed by setting specific tasks to be executed in painting. Previous art training is not necessary.—S. Crile.

2 points. W 2:10-6:00.

### Courses required for the Dance concentration:

Dance BC 2561, BC 2562.

*Dance Workshop I.*

Dance BC 2563.

*Form in Dance Composition.*

Dance BC 2564.

*Content in Dance Composition.*

Dance BC 2565, BC 2566.

*History of Dance.*

Dance BC 2567.

*Fundamentals of Music for Dancers.*

Dance BC 3571, BC 3572.

*Dance Workshop II.*

Dance BC 3574.

*Seminar on Contemporary Choreographers and Their Works.*

### Courses required for the Music concentration:

Any two of the following:

Music V3124. *History II.*

Music V3125. *History III.*

Music V3126. *History IV.*

Plus the following courses if the student is not exempted from them upon entrance into the Program:

Music V2100-V2101. *Theory I and II.*

Music V2300-V2301. *Theory III and IV.*

Music V2303-V2305. *Theory V and VI.*

# Program in the Arts

## Courses required for the Theatre concentration: English BC 3129.

*History of the Theatre: Aeschylus to Ibsen.*

English BC 3133, BC 3134.

*Play Production.*

English BC 3131 or BC 3132.

*The Contemporary Theatre.*

English BC 3135 or BC 3136.

*Actor's and Director's Interpretation of  
Dramatic Literature.*

Dance Technique. One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Three courses in dramatic literature drawn from the following:

Class. Lit. V 3123.

*Greek Drama and its Influences.*

English BC3163 or BC 3164.

*Shakespeare.*

English BC 3186.

*Modern Drama.*

French BC 3034.

*The French Theater of the Seventeenth Century.*

Greek V 3305.

*Tragedy.*

German BC 3025.

*German Prose and Drama from Buchner to  
Nietzsche.*

German BC 3026.

*Modern German Theater.*

## Courses required for the Visual Arts concentration:

Art History BC 1001, BC 1002.

*Introduction to the History of Art.*

Art History BC 3678, BC 3679.

*Modern Art.*

Art History BC 3986.

*Seminar in Art Criticism.*

A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.

## Courses required for the Writing concentration:

Four courses selected from the following:

English BC 3103, BC 3104.

*Structure and Style.*

English BC 3105, BC 3106.

*The Craft of Writing.*

English BC 3107, BC 3108.

*Experiments in Writing.*

English BC 3111, BC 3112.

*Story Writing.*

English BC 3113, BC 3114.

*Dramatic Writing.*

English BC 3193.

*Literary Analysis and Evaluation.*

Plus two advanced courses from any of the College departments of language and literature.





# Biological Sciences

*Department Office: 1208 Altschul Hall*

*Telephone: 280-2437*

*General Biology Course Office: 911 Altschul Hall*

*Telephone: 280-2153*

## **Professors**

Philip V. Ammirato (Chairman), William A. Corpe, Patricia L. Dudley

## **Associate Professors**

Frederick E. Warburton,<sup>2</sup> Julia Chase<sup>1</sup>

## **Assistant Professors**

Paul E. Hertz, Dennis Stevenson

## **Visiting Assistant Professor**

Rae Janet Jacobs-Cohen

## **Laboratory Director**

Alice M. Walrath

Other officers of the University offering courses listed below:

## **Professors**

Walter J. Bock, Eric Holtzman, Cyrus Levinthal, Alberto L. Mancinelli, Burton Singer, Alexander A. Tzagoloff, Geoffrey L. Zubay

## **Associate Professors**

Darcy B. Kelley, Eduardo R. Macagno, Carol L. Prives, Catherine L. Squires

## **Assistant Professors**

Mark B. Dworkin, L. Eckhardt, John D. Harding, James L. Manley, Diane M. Robins, Stephen M. Schuetze

## **Lecturer**

Linda L. Spielman

<sup>1</sup>Absent on leave, Spring Term

<sup>2</sup>Absent on leave, Autumn Term

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. It includes the study of communities, populations, whole organisms, organs, tissues, cells, and subcellular components. Some of the most exciting issues of the day, such as those relating to ecological problems, genetic engineering, and environment and health, require a strong background in biology. At Barnard the emphasis is on organismal biology. Courses cover the gross and fine structure, development, physiology, behavior, ecology, and evolution of organisms and populations of organisms. This approach is complemented by the molecular, biochemical, and neurobiological approach of the Columbia University department.

Many students specialize in this field in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many sub-fields of biology leading to a teaching and research career. Still others plan futures as biological or medical librarians, scientific illustrators or photographers, researchers in industry or government, or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope with accessory equipment, photomicrographic and darkroom instruments, IBM microcomputers, a scintillation counter, an ultracentrifuge, and physiographs. The facilities include constant temperature rooms, darkrooms, an animal care facility, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, or the Donald

# Biological Sciences

and Nancy Ritchie Fund. The department maintains a folder of summer courses and research stations, and information on available funds can be obtained from the department chairman. Support for participation or assistance in the research of the Barnard faculty is available at times from research grants and such programs as the Merck Foundation grant on Women in Science and Technology.

Biology BC 1101-BC 1102, or its equivalent, is a prerequisite for upper level courses in the department. Students who have passed the Advanced Placement examination with a grade of 4 or 5 are exempted from the general course, and may receive course credit, if they present evidence of satisfactory laboratory experience. Students should consult with the department chairman before entering courses for which general biology is a prerequisite. Students may also take courses at Columbia University, including graduate courses; they should consult the Bulletin of the Graduate School of Arts and Sciences and their advisers before planning to take such courses.

## REQUIREMENTS FOR THE MAJOR

Students are encouraged to make a balanced selection of courses for the major, but no special concentration or track is required. Majors should consult their departmental advisers who are chosen at the end of the sophomore year.

A minimum of nine courses in biology (of which six must include laboratory work) and two courses in chemistry with laboratory (including organic chemistry) are required for the major. To ensure a balanced preparation in biology, at least one course must be selected from each of five of the following six categories:

1. Biochemistry, Molecular Biology: C 3501, Biochem G 4021, C 3064, W 3073
2. Genetics: BC 3105, C 3032
3. Cell Biology: BC 3110, BC 3128, W 3040, W 3041
4. Anatomy, Physiology, Development: BC 3109, BC 3111, BC 3116, BC 3124, BC 3134, W 3002, W 3022
5. Organismic Biology: BC 3103, BC 3107, BC 3115
6. Population Biology: BC 3108, BC 3119, W 3094

Courses counting for the laboratory requirement are listed below. There is a laboratory fee of \$30 per biology laboratory course:

Biology BC 1101-BC 1102	<i>General Biology</i>
Biology BC 3103	<i>The Biology of Plants</i>
Biology BC 3105 with Biology BC 3114	<i>Introduction to Genetics with Laboratory in Genetics</i>
Biology BC 3107	<i>Invertebrate Zoology</i>
Biology BC 3109	<i>Vertebrate Embryology</i>
Biology BC 3110	<i>Microbiology</i>
Biology BC 3111	<i>Morphology of Vascular Plants</i>
Biology BC 3116 with Biology BC 3118	<i>Mammalian Physiology with Laboratory in Physiology</i>
Biology BC 3119	<i>Population and Community Ecology</i>
Biology BC 3124	<i>Plant Development</i>
Biology BC 3128 with Biology BC 3130	<i>Biology of Cells and Tissues with Laboratory in Cell and Tissue Biology</i>
Biology BC 3134 with Biology BC 3136	<i>Plant Physiology with Laboratory in Plant Physiology</i>
Biology BC 3138 with Biology BC 3140	<i>Biology of Reproduction with Laboratory in Reproductive Biology</i>
Biology BC 3146 with Biology BC 3148	<i>Environmental Microbiology with Laboratory in Environmental Microbiology</i>
Biology BC 3151	<i>Quantitative Field Biology</i>



# Biological Sciences

Biology BC 3598 or  
Biology BC 3599  
Chemistry BC 3355

*Problems in Biology*  
*(if it includes laboratory work)*  
*Biochemistry Techniques Laboratory*

Columbia biology courses with laboratory  
Laboratory courses from other colleges (with special permission of the chairman).

Participation in a special project, Biology BC 3598 or BC 3599, is highly recommended. These courses give the student an opportunity to experience independent laboratory research. Both intradepartmental (Biology BC 3599) and extradepartmental (Biology BC 3598) projects require the approval of a member of the faculty in the department, who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation and interpretation of results and all require a formal report, written in journal style. All extradepartmental projects receive pass or fail grades; intradepartmental projects may be graded P or F, or by a letter grade, at the option of the sponsor. Only one term may be counted toward the major.

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point averages and faculty recommendations, to determine the recipients of departmental honors.

A year of chemistry with laboratory, including one term of organic chemistry, is required for the major. A number of upper level biology courses require two years of chemistry (Chemistry BC 1601, *General Chemistry*; BC 3328, BC 3230 and BC 3231, *Organic Chemistry I-II*; BC 3232, *Intermediate General Chemistry*; and BC 3338, *Quantitative and Instrumental Techniques Laboratory*). Entering freshmen who plan to major in biology are encouraged to take Chemistry BC 1601 and BC 3328, BC 3230 in addition to Biology BC 1101 and BC 1102 in their first year. Students interested in attending graduate or professional schools should also take at least two years of chemistry, and, in addition, one year each of calculus and physics. Graduate work generally requires a knowledge of one or more modern foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office in their freshman or sophomore year and must take the MCAT exam in their junior year.

## REQUIREMENTS FOR THE MINOR

A minor in biology must have one year of general biology (two terms with laboratory) and three more advanced courses in biology, two of which must include laboratory work. Physics, Psychology, Chemistry, and Biochemistry majors need take only one advanced laboratory instead of two.

## BIOPSYCHOLOGY

A major in biopsychology aims to provide a strong background in the biobehavioral sciences for students who plan to pursue a Ph.D. in Biopsychology or Psychobiology and for whom research training is of prime concern, and for students planning to enter the health sciences. The program is jointly administered by the departments of Biological Sciences and Psychology. Students electing this track are exposed to traditional courses in Biology (e.g., genetics, physiology) and Psychology (e.g., learning), as well as to interdisciplinary courses (e.g., development and evolution of behavior, neurosciences) and research training in the laboratory setting.

# Biological Sciences

## REQUIREMENTS FOR THE BIOPSYCHOLOGY MAJOR

It should be noted that students may also arrange individualized interdisciplinary programs by taking a major in either Psychology or Biological Sciences and a minor in the other discipline, or by taking a double major.

A minimum of 12 courses in Biology and Psychology is required:

Biology BC 1101-BC 1102 with laboratory;

One of the following combinations:

Biology BC 3116 with Biology BC 3118 and Psychology BC 3119,  
*Physiological Psychology* or Biology BC 3116 and Psychology BC 3117;

Biology BC 3105      *Introduction to Genetics*

Biology BC 3122      *Animal Behavior*

Psychology BC 1001      *Introduction to Psychology*

Psychology BC 1105      *Psychology of Learning*

Psychology BC 1609      *Statistics*

One of the following courses:

Biology BC 3107      *Invertebrate Zoology*

Biology BC 3108      *General Ecology*

Biology BC 3109      *Vertebrate Embryology*

Biology BC 3115      *Vertebrate Zoology*

Biology BC 3119      *Population and Community Ecology*

Biology BC 3138      *Biology of Reproduction*

Biology W 3002      *Introduction to Animal Structure and Function*

Biology-Chemistry

C 3501      *Biochemistry I*

Biochemistry G 4021      *General Biochemistry*

Psychology BC 2154      *Hormones and Reproductive Behavior*

Psychology BC 3169      *Developmental Psychobiology*

Either Biology BC 3599 or Psychology BC 3599 or Psychology BC 3591-BC 3592 in which the student will prepare a project;

If the project is taken in biology, one additional psychology course with laboratory; if project is taken in psychology, one additional biology course with laboratory;

Plus at least 7 cognate courses:

Chemistry BC 1601      *General Chemistry I*

Chemistry BC 3230, BC 3231      *Organic Chemistry I and II*

Physics V 1003, V 1004 or      *General Physics*

Physics V 1103, V 1104      *General Physics*

Mathematics      *One year calculus*

Computer Science is optional.

The major examination consists of the Graduate Record Examination in Biology, the Graduate Record Examination in Psychology, or the completion of a satisfactory senior research paper in Psychology.

Students who wish to attend graduate or medical school are advised to take two semesters each of General Chemistry and Organic Chemistry.

## REQUIREMENTS FOR THE MINOR

There is no minor in Biopsychology.



# Biological Sciences

## COURSES OF INSTRUCTION

### **BIO BC 1101x-BIO BC 1102y. General Biology.**

Nature, development, and implications of biological knowledge; biochemical basis and energy relations of organisms; structure and function of cells; organization and physiology of plants and animals, with emphasis on integration and control; classical and molecular genetics; development and differentiation; evolution, ecology, and animal behavior.—1: P. Ammirato; 2: P. Hertz.

*Enrollment in laboratory sections limited to 16 students per section.*

*4½ points.*

*Lecture M W F 9:00.*

*Laboratory Tu or Th 9:00-11:50, F 10:00-12:50, M, Tu, W, Th or F 1:10-4:00, M, Tu, W, or Th 2:10-5:00.*

### **BIO BC 3103y. The Biology of Plants.**

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance.—D. Stevenson.

*Prerequisites: Course 1-2 or equivalent, and permission of the instructor.*

*Enrollment limited to 48 students.*

*5 points.*

*Lecture Tu Th 10:35-11:50.*

*Laboratory Tu or W 1:10-5:00.*

### **BIO BC 3104x. Natural History of the New York Area.**

Field observations of plants, fungi, birds, reptiles, amphibians, lower invertebrates and arthropods; methods of identification, collection, preservation; visits to a variety of ecosystems, both semi-wild and altered by man.—F. Warburton, D. Stevenson, and J. Sanders.

*Registration for course in Autumn.*

*Enrollment limited to ca. 15 students.*

*Field trips, laboratory, and discussions required. Not offered in 1984-85.*

*3 points.*

### **BIO BC 3105y. Introduction to Genetics.**

Mendelian and quantitative genetics of plants, animals, and man; segregation, recombination, measurement of linkage, and genetics of continuous variation; cytogenetics; developmental genetics; population genetics and evolution. Human genetics emphasized where it exemplifies general principles.—F. Warburton.

*Prerequisites: BC 1101-BC 1102 or the equivalent, calculus or statistics, or permission of the instructor.*

*Students interested in laboratory see BC 3114.*

*3 points.*

*Lecture Tu Th 10:35-11:50, plus one hour recitation and demonstration to be arranged.*

### **BIO BC 3106y. Evolution.**

Modern theory of evolution: genetic and ecological mechanisms that adapt organisms to their environments and increase the diversity of species.—F. Warburton.

*Prerequisite: BC 1101-BC 1102 or equivalent.*

*Offered in alternate years. Offered in 1985-86. 3 points.*

### **BIO BC 3107y. Invertebrate Zoology.**

Invertebrate animals: comparative fine and gross structure, development, physiology and autecology; emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal.—P. Dudley.

*Prerequisites: BC 1101-BC 1102 or the equivalent, and permission of the instructor.*

*5 points.*

*Offered in alternate years. Offered in 1984-85.*

*Lecture: M W F 11:00.*

*Laboratory/demonstration: W 1:10-5:00.*

### **BIO BC 3108y. General Ecology.**

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment.—P. Dudley.

*Prerequisites: A year of college biology and permission of the instructor. A course in general chemistry is recommended.*

*Offered in alternate years. Offered in 1985-86. 3 points.*

### **BIO BC 3109x. Vertebrate Embryology.**

Anatomy, morphogenesis, and differentiation of embryos of vertebrate animals: gametogenesis, fertilization, cleavage, gastrulation, and the morphogenetic and physiological events which occur during embryonic histogenesis and organogenesis. The laboratory includes comparative studies of the anatomy of embryos and experimental analysis of development.—R. J. Jacobs-Cohen.

*Prerequisites: BC 1101-BC 1102 with laboratory or its equivalent with permission of the instructor.*

*Enrollment limited to 40 students.*

*5 points.*

*Lecture M W F 9:00.*

*Laboratory M or Tu 1:10-5:00.*

# Biological Sciences

## **BIO BC 3110y. General Microbiology.**

Survey of procaryotic and eucaryotic microorganisms; structure and function, nutrition, physiology, genetics, growth, inhibition of growth and activity, classification, distribution and importance in natural environments.—W. Corpe.

*Prerequisites:* A year of college biology, general chemistry and permission of the instructor.

*Enrollment limited to 24 students.*

*Offered in alternate years. Offered in 1985-86.*  
5 points.

## **BIO BC 3111x. Morphology of Vascular Plants.**

An analysis of form and structure in the higher plants. Differentiation, ultrastructure and anatomy of cells, tissues and organs. Evolution and comparative morphology studied from the viewpoint of both fossil and extant representatives. Laboratory utilizes various histological techniques including fossil peels. —D. Stevenson.

*Prerequisites:* BC 1101-BC 1102 or equivalent; BC 3103.

*Enrollment limited to 24 students.*

*Offered in alternate years. Offered in 1985-86.*  
5 points.

## **BIO BC 3113x. Biogeography.**

Plant and animal distribution: the effects of biological introductions via human activities, the major vegetation zones, mechanisms of dispersal, and utilization of the biota including the effects of exploitation on species and habitats. —D. Stevenson.

*Prerequisites:* BC 1101-BC 1102 or equivalent (or one year of any other laboratory science and permission of the instructor).

3 points. Tu Th 9:10-10:25.

## **BIO BC 3114y. Laboratory in General Genetics.**

Exercises in the use of *Drosophila*, *Neurospora*, bacteria and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics.—R. J. Jacobs-Cohen.

*Prerequisite:* BC 3105.

*Enrollment limited to 32 students.*

2 points. Tu or W 1:10-5:00.

## **BIO BC 3115x. Vertebrate Zoology.**

A systematic survey of the Phylum Chordata including fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding, and behavior.—P. Hertz.

*Prerequisites:* BC 1101-BC 1102 or its equivalent and permission of the instructor.

*Enrollment limited to 32 students.*

*Offered in alternate years. Offered in 1985-86.*  
3 points.

## **BIO BC 3116x. Mammalian Physiology.**

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, and nervous systems in animals; emphasis on higher vertebrates and man.—J. Chase.

*Prerequisites:* Three terms of biology, two terms of organic chemistry, or permission of the instructor.  
3 points. Tu Th 9:10-10:25.

## **BIO BC 3118x. Laboratory in Physiology.**

Physiographic recording of cardiac, respiratory and muscle function; small animal surgery; sterotaxic and histological confirmation of lesions. Additional laboratories in amphibian metamorphosis, enzyme kinetics, active transport, exercise physiology and renal function.—J. Chase.

*Corequisite or Prerequisite:* BC 3116.

*Enrollment limited to 32 students.*

2 points. Th or F 1:10-5:00.

## **BIO BC 3119x. Population and Community Ecology.**

Introduction to major concepts and issues in evolutionary ecology; emphasis on such topics as life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate recent theory with observational and experimental data.—P. Hertz.

*Prerequisites:* A year of college biology, one of the following: BC 3103, BC 3107, BC 3110, or BC 3115, and permission of the instructor.

*Calculus is recommended.*

*Enrollment limited to 16 students.*

5 points.

*Lecture:* Tu Th 10:35-11:50.

*Laboratory:* Th 1:10-5:00.

## **BIO BC 3122y. Animal Behavior.**

Introduction to animal behavior: physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), traditional ethological approaches to behavior (communication, dyadic behavior, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, ecological correlates, social behavior).—J. Chase.

*Prerequisite:* One year of biology or one year of psychology.

*Not offered in 1984-85. Offered in 1985-86.*

3 points.



# Biological Sciences

## **BIO BC 3124y. Plant Development.**

Processes of growth, differentiation and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action. Laboratory utilizes whole plant, organ and cell cultures.—P. Ammirato.

*Prerequisites:* BC 1101-BC 1102 or equivalent, one semester of organic chemistry, and permission of the instructor.

*Enrollment limited to 16 students.*

*5 points.*

*Lecture: M F 11:00-12:15.*

*Laboratory: Th 1:10-5:00.*

## **BIO BC 3126y. History of Biology.**

Growth of biological knowledge and ideas to the time of Darwin and Pasteur, and the paths leading to modern genetics, developmental biology, and evolutionary theory since then, in relation to concurrent developments in technology, medicine, and other sciences; religious, political and social influences on biological thought. Numerous excerpts from original biological writings will be examined.—F. Warburton.

*Prerequisites:* BC 1101-BC 1102 or the equivalent, and one advanced biology course.

*Offered in alternate years. Offered in 1986-87.*

*3 points.*

## **BIO BC 3128x. Biology of Cells and Tissues.**

Structural and physiological aspects of cells, tissues and organs in vertebrate animals; advances in histological technology; light microscopic and electron microscopic studies of the structure of cell organelles and the basic types of tissues; integration of tissues as organs; modern concepts of function.—P. Dudley.

*Prerequisites:* BC 1101-BC 1102 or its equivalent, and one advanced biology course or permission of the instructor.

*3 points. M W F 11:00-11:50.*

## **BIO BC 3130x. Laboratory in Cell and Tissue Biology.**

Optional laboratory to be taken concurrently with BC 3128. Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques.—P. Dudley.

*Corequisite:* BC 3128. *Permission of the instructor required.*

*Enrollment limited to 16 students.*

*2 points. Tu or W 1:10-5:00.*

## **BIO BC 3134y. Plant Physiology.**

Processes of metabolism, nutrition, growth, and development of green plants: photosynthesis,

respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy, senescence and death.—P. Ammirato.

*Prerequisites:* BC 1101-BC 1102 or its equivalent, one term of organic chemistry and permission of the instructor.

*Enrollment limited to 16 students.*

*Offered in alternate years. Offered in 1985-86.*

*3 points.*

## **BIO BC 3136y. Laboratory in Plant Physiology.**

Determination of water and osmotic potential and transpiration rates. Solute uptake and mineral deficiency studies. Photomeric determination of the Hill reaction in isolated chloroplasts; manometric measurement of CO<sub>2</sub> compensation points and respiration rates. Extraction, separation and identification of amino acids, nucleic acids and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis.—P. Ammirato.

*Corequisite or Prerequisite:* BC 3134.

*Enrollment limited to 16 students.*

*Offered in alternate years. Offered in 1985-86.*

*2 points.*

## **BIO BC 3138y. The Biology of Reproduction.**

The diversity of reproductive strategies in animals; functional morphology, physiology and endocrinology of reproduction; pregnancy, placentation, parturition, lactation; reproductive efficiency, fertility, sterility.—Instructor to be announced.

*Prerequisites:* BC 1101-BC 1102 or its equivalent; BC 3109 or Psychology BC 3154; or permission of the instructor.

*Enrollment limited to 40 students.*

*Offered in alternate years. Offered in 1985-86.*

*3 points.*

## **BIO BC 3140y. Laboratory in Reproductive Biology.**

Optional laboratory to be taken concurrently with BC 3138. Assay systems for reproductive hormones. Spermatogenesis. *In vitro* and *in vivo* studies of oocyte maturation and fertilization; transfer of fertilized eggs to foster mothers, using rodents. Uterine and placental physiology. Experimental teratology.—Instructor to be announced.

*Corequisite:* BC 3138.

*Enrollment limited to 16 students.*

*Offered in alternate years. Offered in 1985-86.*

*2 points.*

# Biological Sciences

## **BIO BC 3144y. Cytogenetics.**

The chemical and genetic organization of chromosomes and the behavior of chromosomes in dividing and non-dividing cells. Relationships of chromosomal components to metabolic functions and cellular and organismic life cycles. The contributions of cytogenetics to understanding taxonomic relationships and evolutionary processes in procaryotic and eucaryotic organisms.—R. J. Jacobs-Cohen.

*Prerequisite:* BC 3105 or C 3032 or equivalent.  
3 points. Tu Th 9:10-10:25.

## **BIO BC 3146y. Environmental Microbiology.**

A study of the relationships between microorganisms and the human environment. The role of microorganisms in terrestrial and aquatic systems in relation to environmental quality. Examination of microbiologically catalyzed processes related to nutrient cycling, corrosion of metal and biodegradation of toxic materials. Evaluation of microbiological control measures in drinking water and food.—W. Corpe.

*Prerequisites:* A year of college biology, general chemistry or permission of the instructor.  
*Offered in alternate years. Offered in 1984-85.*  
3 points. M W F 9:00.

## **BIO BC 3148y. Laboratory in Environmental Microbiology.**

A study of the qualitative and quantitative methodology for study of microbial populations and processes in the environment. Experiments will be done on nutrient cycling, eutrophication, treatment of wastewater, and digestion of solid wastes.—W. Corpe.

*Corequisite or prerequisite:* BC 3146.

*Enrollment limited to 24 students.*

*Offered in alternate years. Offered in 1984-85.*  
2 points. M 1:10-5:00.

## **BIO BC 3151x. Quantitative Field Biology.**

An introduction to ecological theory and methods with an emphasis on hypothesis construction, experimental design, methods of field data collection, data analysis, and presentation of research results. Students will design and complete field projects, culminating in oral and written reports.—P. Hertz and D. Stevenson.

*Prerequisites:* BC 1101-BC 1102, one of the following: BC 3108, BC 3113, BC 3119, and permission of the instructors.

*Enrollment limited to 12 students.*

*Class meets first six weeks in Autumn Term and last six weeks in Spring Term.*

*Offered in alternate years. Offered in 1985-86.*  
5 points.

## **BIO BC 3598x, BIO BC 3598y. External Studies in Biology.**

Research projects outside the department developed in consultation with an instructor who serves as cosponsor.—Staff.

*Prerequisite:* One year of general biology and permission of the instructor.

4 points. Hours to be arranged.

## **BIO BC 3599x, BIO BC 3599y. Individual Research in Biology.**

Independent work in the department to suit the needs of the student after consultation with the instructor.—Staff.

*Prerequisite:* One year of general biology and permission of the instructor.

4 points. Hours to be arranged.

## **BIO W 1208y. Introduction to Organismic and Evolutionary Biology of Animals.**

W. Bock.

3 points. M W F 11:00.

## **BIO W 3002y. Introduction to Animal Structure and Function.**

W. Bock.

6 points.

*Lecture* M W F 9:00.

*Laboratory* M Tu W 1:10-5:00, or M W 6:10- 10:00  
(two 4-hour laboratories required).

## **BIO W3005y. Central Nervous System Neurobiology.**

D.B. Kelley.

3 points. Tu Th 4:10-5:25.

## **BIO C 3006y. Project Laboratory in Neurophysiology and Neuroanatomy.**

E. Macagno and S. Schuetze.

5 points.

*Tu or Th 1:10-6:00 and additional hours to be arranged.*

## **BIO W 3022x. Developmental Biology.**

J. Harding.

3 points. M W F 11:00.

## **BIO C 3032y. Introduction to Genetics.**

M. Dworkin.

3 points. M W F 1:10.

## **BIO W 3033y. Animal Physiology.**

E. Macagno.

3 points. Tu Th 9:00-10:15.



# Biological Sciences

## **BIO W 3040x. Laboratory in Cell and Developmental Biology.**

L. Spielman.

5 points.

*Lecture-Laboratory Tu 12:30-5:30 (Section 1) or Th 5:30-10:30 (Section 2). Additional hours Tu 6:10-10:00, W 1:10-5:00 or F 1:10-5:00.*

## **BIO W 3041y. Cell Biology.**

E. Holtzman.

4 points.

*Tu Th 11:00-12:30. Half-hour discussion periods follow most class sessions.*

## **BIO C 3046y. Project Laboratory in Eucaryotic Gene Expression.**

C.L. Prives and D.M. Robins.

5 points.

*Laboratory Tu Th 1:10-5:00 plus additional hours to be arranged.*

## **BIO C 3052x. Project Laboratory in Molecular Genetics.**

C. Squires.

5 points. *Tu Th 1:10-5:00 plus additional hours to be arranged.*

## **BIO C 3064x. Molecular Genetics.**

G. Zubay.

4 points. *Tu Th 10:35-11:50.*

*Recitation: Tu or Th 12:00-12:50.*

## **BIO W 3073y. Cellular and Molecular Immunology.**

L. Eckhardt.

3 points. *Tu Th 10:35-11:50.*

## **BIO W 3094y. The Biosphere.**

A. Mancinelli.

3 points. *Tu Th 4:10-5:25.*

## **BIO C 3292y. Quantitative Modeling in Biology and Medicine.**

B. Singer and C. Levinthal.

3 points. *Tu Th 10:35-11:50.*

## **Biology-Chemistry BCH C 3501x.**

### **Biochemistry I: Structure and Metabolism.**

C. Levinthal and A. Tzagoloff.

4 points.

*M W F 10:00 plus one hour recitation to be arranged.*

## **Biology-Chemistry BCH C 3512y.**

### **Biochemistry II: Molecular Biology.**

J. Manley and D. Robins.

3 points. *Tu Th 9:10-10:25.*



# Chemistry

Office: 802 Altschul Hall

Telephone: 280-3628

## Professor

Bernice G. Segal

## Associate Professors

Sally Chapman,<sup>1</sup> Barry M. Jacobson (Chairman), Leslie Lessinger

## Assistant Professor

R. Daniel Libby

## Visiting Assistant Professor

Lucille Chia

## Lecturers

James Carter, Grace W. King, Clara Wu

## Associates

Linda Berns, Michael Cassio, Barbara Goodstein, Olympia Jebejian, Rosalyn Peller.

<sup>1</sup>Absent on leave, 1984-85.

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken an Advanced Placement course in secondary school may be given advanced placement and credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; Chemistry BC 3232, *Intermediate General Chemistry*; and Chemistry BC 3338, *Quantitative and Instrumental Techniques Laboratory*.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. In addition, students may be charged for excessive breakage.

## REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department, in chemistry and biochemistry. The same major examination is required for both chemistry and biochemistry; there is no senior essay required for either.

## Chemistry

A student who is interested in chemistry should consult any member of the department during her freshman year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.



Courses required for the major are:

Chemistry BC 1601	<i>General Chemistry</i>
Chemistry BC 3328, BC 3230, BC 3231	<i>Organic Chemistry I with laboratory and II</i>
Chemistry BC 3335	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3236	<i>Introductory Thermodynamics and Kinetics</i>
Chemistry BC 3340	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3261	<i>Atomic and Molecular Structure</i>
Chemistry BC 3264	<i>Applied and Statistical Thermodynamics</i>
Chemistry BC 3365, BC 3368	<i>Advanced Chemistry Laboratory</i>

(For BC 3365 and BC 3368, Chemistry BC 3370 may be substituted.)

Physics V1103-V1104 *General Physics with Laboratory*  
or

Physics C1006-C1007

Mathematics *Calculus I, II, and III in any sequence (A, B, or C)*

*Recommended: Calculus IV and an advanced inorganic chemistry course.*

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

## Biochemistry

Courses required for the major are:

Chemistry BC 1601, BC 3328, BC 3230, BC 3231,  
BC 3333 or BC 3335, BC 3338 or BC 3340, and BC  
3355;

Chemistry BC 3236 and BC 3264 (or Chemistry  
V3059-V3060);

*Introductory Physical  
Chemistry I and II*

Biology BC 1101, BC 1102  
Physics V1103-V1104

*General Biology  
General Physics with  
Laboratory*

Calculus I and II.

Biology-Chemistry C 3501 and G 4502

*Biochemistry I and II*

Elective courses totaling 5 points from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

## REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, and BC 3338, plus one of the following three: Chemistry BC 3232, BC 3236, or V 3059.

There is no minor in Biochemistry.

# Chemistry

## COURSES OF INSTRUCTION

### **CHE BC 1601x. General Chemistry I.**

Particulate nature of matter in various states; chemical transformations of matter, especially of ionic substances; properties of gases and kinetic theory, solutions, equilibrium, acid-base, precipitation and oxidation-reduction reactions, and thermochemistry; laboratory experience with both qualitative and quantitative techniques.—B. Segal, G. King and associates.

*Prerequisite:* Algebra (Math SAT score of 550 for freshmen).

*Total enrollment in laboratory limited to 176 students.*

*5 points. Lecture Tu Th 9:10-10:25.*

*Recitation one afternoon: M Tu W Th or F 1:10-2:00.*

*Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00 or Th 10:35-1:35. Students in the morning lab must choose a M, Tu, or W recitation. Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee \$28.*

### **CHE BC 1602y. General Chemistry II.**

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; chemistry of selected elements with attention to carbon; selected topics in environmental chemistry and biochemistry.—B. Jacobson, G. King and associates.

*Prerequisite:* BC 1601 or permission of the instructor. *Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.*

*5 points. Lecture M W F 10:00.*

*Recitation and laboratory one afternoon Tu or W 1:10-5:00. Laboratory fee \$28.*

### **CHE BC 3328y. Introductory Organic Chemistry Laboratory.**

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation.—R.D. Libby, J. Carter, and associates.

*Prerequisite:* BC 1601 or equivalent with grade of C– or better, or BC 1601 and BC 1602 or equivalent. *Corequisite:* BC 3230 or equivalent. *Enrollment limited to 144.*

*2½ points.*

*Lecture one afternoon M Tu W Th or F 1:00-1:50. Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30. Laboratory fee \$35.*

### **CHE BC 3230y. Organic Chemistry I.**

Atomic and molecular structure; an introduction

to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry and spectroscopy.—B. Jacobson.

*Prerequisite:* BC 1601 or equivalent with a grade of C– or better, or BC 1601 and BC 1602 or equivalent.

*3 points. Lecture Tu Th 9:10-10:25.*

*Problem section F 12:00.*

### **CHE BC 3231x. Organic Chemistry II.**

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules.—R. D. Libby.

*Prerequisite:* BC 3230. *Required for biology majors and premedical students.*

*3 points. M W F 10:00.*

*Problem section Tu 12:00.*

### **CHE BC 3232y. Intermediate General Chemistry.**

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3236 or V 3059. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.—L. Chia.

*Prerequisites:* BC 1601 and Organic Chemistry I. *BC 3230 may be taken as a corequisite with permission of the instructor.*

*Optional parallel laboratory work: one afternoon under BC 3338.*

*Course C 1404 is not an acceptable equivalent for BC 3232.*

*3 points. M W F 10:00.*

### **CHE BC 3333x. Modern Techniques of Organic Chemistry Laboratory.**

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.—B. Jacobson, J. Carter.

*Prerequisites:* BC 3328 and BC 3230. *Corequisite:* BC 3231. *Suitable for premedical and biological science students but not required by all medical schools. Required of biochemistry majors.*

*Enrollment limited to 12 students.*

*3 points. Lecture Th 1:10.*

*Laboratory one afternoon Tu 1:10-5:00 or F 1:10-5:00. Laboratory fee \$35.*



## **CHE BC 3335x. Modern Techniques of Organic Chemistry Laboratory.**

Identical with BC 3333, but with a library problem, a short project and additional preparative experiments.—B. Jacobson, J. Carter.

*Prerequisites:* BC 3328 and BC 3230. *Corequisite:* BC 3231. *Chemistry majors must take this course, but it is not required by medical schools. Enrollment limited to 15 students.*

5 points. *Lecture* Th 1:10.

*Laboratory* two afternoons Tu 1:10-5:00, Th 2:10-6:00 plus two additional hours to be arranged. *Laboratory fee* \$35.

## **CHE BC 3236y. Introductory Thermodynamics and Kinetics.**

Introduction to chemical kinetics, the laws of thermodynamics, and a study of ionic solutions and crystals.—B. Segal.

*Prerequisites:* BC 3230, *Calculus I and II, and preceding or parallel Physics VII03-VII04 and Calculus III. Recommended parallel:* BC 3340. 4 points.

*Lecture* Tu Th 9:10-10:25 and M 12:00.

## **CHE BC 3338y. Quantitative and Instrumental Techniques Laboratory.**

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided.—L. Lessinger and O. Jebejian.

*Corequisite for students not majoring in chemistry or biochemistry:* BC 3232 or BC 3236.

*Suitable for premedical and biological science students. Required of biochemistry majors.*

3 points. *Lecture* Tu 1:10.

*Laboratory* Tu 2:10-6:00 or Th 1:10-5:00.

*Laboratory fee* \$35.

## **CHE BC 3340y. Quantitative and Instrumental Techniques Laboratory.**

Identical with BC 3338 except that a greater variety of experiments is offered, with more individual options.—L. Lessinger and O. Jebejian.

*Corequisite for students not majoring in chemistry or biochemistry:* BC 3232 or BC 3236.

*Required of chemistry majors and suitable also for biochemistry majors and for premedical and biological science students.*

5 points. *Lecture* Tu 1:10.

*Laboratory* two afternoons Tu 2:10-6:00 and Th 1:10-5:00.

*Laboratory fee* \$35.

## **CHE V3059x. Introductory Physical Chemistry I.**

Thermodynamics, physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry.—L. Chia.

*Prerequisites:* *Organic Chemistry II, Calculus I and II, and Physics VII03-VII04, or the equivalents. Intended for majors in biochemistry and biology, and premedical students.*

3 points.

*Recommended laboratory:* BC 3338 or BC 3340. *Lecture* M W F 11:00.

*Recitation hour* W 12:00.

## **CHE V3060y. Introductory Physical Chemistry II.**

Kinetic theory, chemical kinetics, transport properties, surfaces, macromolecules, quantum chemistry, and spectroscopy.—M. Vernon.

*Prerequisite:* V 3059 or permission of the instructor.

3 points. *M W F* 11:00.

## **CHE BC 3355x. Biochemistry Laboratory Techniques.**

Experience with fundamental techniques used in the isolation, characterization and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics and simple genetic cell transformation methods.—D. Libby.

*Prerequisites:* BC 3231, or one year of *Organic Chemistry, Biology BC 1101, BC 1102 or equivalent, and a total of four semesters of chemistry and biology laboratory. Corequisite:* *Biology-Chemistry C 3501 or Biochemistry G 4021. Enrollment limited to 30 students.*

5 points. *Lecture:* M 12:10-1:00.

*Lab:* Tu 1:10-5:00 and Th 1:10-5:00.

*Laboratory fee* \$35.

## **CHE BC 3261x. Atomic and Molecular Structure.**

Introduction to quantum chemistry and spectroscopy.—L. Lessinger.

*Prerequisite:* BC 3236, *Physics VII03-VII04, and Calculus III. Calculus IV is recommended.*

4 points. *Lecture* M W F 11:00, Tu 12:00.

## **CHE BC 3264y. Applied and Statistical Thermodynamics.**

Thermodynamics of real gases and solutions; phase equilibria; electrochemistry; kinetic theory of gases; statistical thermodynamics, partition functions, equilibrium.—B. Segal.

*Prerequisites:* BC 3230, BC 3236, *Physics VII03-VII04, and Calculus III. BC 3261 and Calculus IV are recommended.*

4 points. *Lecture* M W F 11:00, F 12:00.

# Chemistry

## **CHE BC 3365x. Advanced Chemistry Laboratory.**

Experiments in kinetics, various types of spectroscopy, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some experience with computer programming. Chemistry majors must take both BC3365x and BC3368y, or BC3370y. Suitable for biochemistry majors also.—L. Lessinger and Associate.

*Prerequisites: BC3236 or V3059, and BC3340 or equivalent. BC3333 or BC3335 is recommended. 3 points. Lecture Th 12:00.*

*Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00.*

*Laboratory fee \$35.*

## **CHE BC 3368y. Advanced Chemistry Laboratory.**

Topics identical with BC3365. These courses may be taken in either order.—L. Chia and C. Wu.

*Prerequisites identical with BC3365.*

*3 points. Lecture Tu 12:00.*

*Laboratory one afternoon M or W 1:10-5:00.*

*Laboratory fee \$35.*

## **CHE BC 3370y. Advanced Chemistry Laboratory.**

Identical with BC 3365 plus BC 3368.

—L. Chia and C. Wu.

*Prerequisites: BC 3236 or V 3059, and BC 3340 or equivalent, and BC 3261. Corequisite: BC 3264. BC 3335 is recommended.*

*5 points. Lecture Tu 12:00.*

*Laboratory two afternoons M W 1:10-5:00.*

*Laboratory fee \$35.*

## **CHE BC 3599x, CHE BC 3599y. Problems in Chemistry.**

Advanced individual laboratory projects for students who have completed the major requirements.—Staff.

*Prerequisite: Completion of laboratory courses BC 3333 and BC 3338. For some projects, BC 3370 is also required. Permission of the instructor required.*

*4 points. Eight hours by arrangement.*

*Laboratory fee \$35.*

## **Summer Research**

The department has available a number of fellowships for summer research within the department. (Funding has been provided primarily by the IBM Foundation.) Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

Attention is called to the following courses offered elsewhere in the University.

## **Biology-Chemistry BCH C3501x. Biochemistry I.**

M. Dworkin and J. Manley.

*4 points. M W F 10:00.*

## **Biology-Chemistry BCH G4170x. Biophysical Chemistry.**

J. Barton.

*4½ points. M W F 10:00-10:50.*

## **Biology-Chemistry BCH G4502y. Biochemistry II.**

C. Levinthal and D. Robins.

*4½ points. Tu Th 9:10.*

## **Chemistry CHE C3071y. Introduction to Inorganic Chemistry.**

To be announced.

*3 points. M W F 9:00.*

## **Chemistry CHE G4103x. Inorganic Chemistry.**

To be announced.

*4½ points. Tu Th 9:10.*

## **Chemistry CHE G4131x. Introductory Quantum Chemistry.**

M. Vernon.

*4½ points. M W F 12:00.*

## **Chemistry CHE G4147x. Advanced Organic Chemistry.**

T. Katz.

*4½ points. M W F 9:00.*

## **Chemistry CHE G4172y. Bio-Organic Topics.**

R.C. Breslow.

*4½ points. M W F 11:00.*

## **Chemistry CHE G4221x. Quantum Chemistry I.**

B. Berne.

*4½ points. M W F 12:00.*

## **Chemistry CHE G4231y. Chemical Kinetics.**

G. Flynn.

*4½ points. M W F 10:00.*



# Classics

Office: 216 Milbank Hall

Telephone: 280-2852,5417

## Professor

Helen H. Bacon<sup>1</sup>

## Associate Professors

Helene P. Foley (Chairman), Lydia H. Lenaghan

## Assistant Professor

Daniel L. Selden

## Assistant Professor of Modern Greek

Dorothy M.-T. Gregory

Other officers of the University offering courses in Classics:

## Professors

Roger S. Bagnall,<sup>1</sup> Alan D. E. Cameron, James A. Coulter, Leonardo Taran

## Visiting Associate Professor

Joseph Solodow

## Assistant Professors

Darice E. Birge, Richard Janko, Peter Knox, Matthew S. Santirocco, Laura M. Slatkin

<sup>1</sup>Absent on leave, 1984-85.

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek and Latin either by completing Greek BC 2011, *Prose and Poetry*, and Greek BC 2012, *Selections from Homer*; or by completing Latin BC 2003, *Cicero: Selections*, and Latin BC 2004, *Vergil: Selections from the Aeneid*; or by completing one semester of study above Greek BC 2012 or Latin BC 2004 (or the equivalent Columbia courses); or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin. Students may fulfill the language requirement in Modern Greek by completing Modern Greek BC 2004, *Intermediate Course II*.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Medea*, *Alcestis*, *The Persians*, *The Eumenides*, *Cyclops* and *Electra*, which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

# Classics

## REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Greek W 4105-W 4106

and five others.

*Greek Syntax*

*History of Greek Literature*

In Latin, this would be fulfilled by taking

Latin W 4139

Latin W 4105-W 4106

and five others.

*Latin Syntax*

*History of Latin Literature*

A student may elect to major in both Greek and Latin by completing the major requirements in one language and 5 courses above the elementary level in the other.

## REQUIREMENTS FOR THE MINOR

The minor in Classics requires five courses above the elementary level.

FOR THE REQUIREMENTS FOR THE MAJOR IN ANCIENT STUDIES, SEE ANCIENT STUDIES.

## COURSES OF INSTRUCTION

### CLASSICS IN TRANSLATION

#### Classical Literature CLL BC 1032y.

##### Classical Myth.

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid).—D. Birge.

3 points. M W 1:10-2:25.

(III)

#### Classical Literature CLL V 3123x. Greek Drama and Its Influences.

Evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome; relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays.—H. Foley.

3 points. M W F 11:00.

(III)

#### Classical Literature CLL W 4300x. The Classical Tradition.

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern poets.—M. Santirocco.

3 points. Tu Th 6:10-7:25.

#### Classical Civilization CLC V 3158y.

##### Women in Antiquity.

Role of women in ancient Greek and Latin literature; portrayal of women in literature as compared with their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epic, lyric, drama, history and historical documents, medical texts, oratory and philosophy as well as contemporary sociological and anthropological works which will help to analyze the origins of the Western attitude towards women.—H. Foley.

3 points. M W F 11:00.

#### Classical Civilization CLC V 3162y.

##### Ancient Law.

Greek and Hellenistic legal systems. Roman law until the time of Justinian; development of law, legal codes as an expression of the nature of society which produced them.—R. Bagnall.

Not offered in 1984-85.

3 points.

#### Classical Civilization CLC V 3163x.

##### The Greek Historical Tradition.

Greek conceptions of how history is made; determining influences such as divine interference, individual human exploits, chance; analysis of epic, philosophical, and historical texts.

Not offered in 1984-85.

3 points.



## Classical Civilization CLC V 3175y.

### The World of Late Antiquity.

The social, economic and religious history of the Roman world from the second to the early seventh century A.D.—A. Cameron.

3 points. M W 4:10-5:25.

## Classical Civilization CLC V 3140y. The Archaeology of the Later Greek Bronze Age.

The material culture of Mycenaean Greece and Crete, including architecture, painting, pottery and the Linear B tablets. The problem of the final collapse of Mycenaean Civilization, and the Dark Ages, which gave rise to the Homeric poems.—R. Janko.

Not offered in 1984-85.

3 points.

## GREEK LANGUAGE AND LITERATURE

### GRE BC 1001x-GRE BC 1002y.

#### Elementary Full-Year Course.

Grammar, composition, and reading. In Greek BC 1002 a dialogue of Plato, generally the *Apology*, will be read.—D. Selden.

BC 1001 is prerequisite to BC 1002.

4 points.

No credit is given for BC 1001 unless BC 1002 is completed.

M W F 1:10-2:25.

### GRE W 1101x-GRE W 1102y, GRE W 1102x-

#### GRE W 1101y. Elementary Course.

Equivalent to BC 1001-BC 1002.

4 points.

No credit is given for W1101 unless W1102 is completed.

W 1101x-W 1102y: M W F 11:00-12:15.

D. Birge.

W 1102x-W 1101y: M W Th 6:10-7:25. Instructor to be announced.

### GRE BC 2011x. Prose and Poetry.

Selections from Herodotus and relevant archaic poetry; Herodotus' historiographical and literary techniques and his themes. There will be weekly assignments to review forms and syntax.—D. Selden.

Prerequisite: BC 1001-BC 1002 or W 1101-W 1102.

4 points. Tu Th 2:40-3:55; F 1:10-2:00. (II)

### GRE W 1201x. Prose and Poetry.

Equivalent to BC 2011.—L. Taran.

Prerequisite: BC 1001-BC 1002 or W 1101-W 1102.

4 points. Tu Th 1:10-2:25; F 11:00. (II)

### GRE BC 2012y. Selections from Homer.

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer.—L. Lenaghan.

Prerequisite: BC 2011 or permission of the instructor.

4 points. M W F 10:00-10:50, Th 4:10-5:00. (II)

### GRE W 1202y. Homer.

Equivalent to BC 2012.—L. Slatkin.

Prerequisite: BC 2011 or permission of the instructor.

4 points. M W 4:10-5:25, Th 4:10-5:00. (II)

### GRE V 3305x. Tragedy.

Sophocles' *Antigone* and *Oedipus Rex* will be read together with sections from Aristotle's *Poetics* in English. Discussions of theories of tragedy.—L. Slatkin.

Prerequisite: BC 2011 and BC 2012, or their equivalents.

3 points. M W 11:00-12:15. (II)

### GRE V 3306x. Historians.

Thucydides, *Histories*. A detailed reading of Thucydides' account of the Sicilian expedition (selections from Books VI-VII), with emphasis on the dramatic elements in Thucydides' account, his style in narrative and speeches, and his aims as a historiographer.—R. Janko.

Prerequisites: BC 2011 and BC 2012, or their equivalents.

3 points. Tu Th 2:40-3:55. (II)

### GRE V 3307x. Comedy.

Prerequisites: BC 2011 and BC 2012, or their equivalents.

Offered in alternate years. Offered in 1985-86.

3 points. (II)

### GRE V 3308y. Philosophy.

Prerequisites: BC 2011 and BC 2012, or their equivalents.

Offered in alternate years. Offered in 1985-86.

3 points. (II)

### GRE V 3309y. Selections from Greek Literature, I.

Content of course changes each year; it may be taken in consecutive years. Topic for 1984-85: A close study of the *Nichomachean Ethics* with special emphasis on Aristotle's theory of practical virtue, happiness, and pleasure.—L. Taran.

Prerequisites: BC 2011 and BC 2012, or their equivalents.

3 points. Tu Th 1:10-2:25. (II)

# Classics

## **GRE V 3310y. Selections from Greek Literature, II.**

Content of course changes each year; it may be taken in consecutive years. Topic for 1984-85: Hesiod's *Theogony* and *Works and Days*. Discussion of Hesiod's religious thought and Near Eastern parallels.—D. Birge.

*Prerequisite:* BC 2011 and BC 2012, or their equivalents.

3 points. Tu Th 2:40-3:55. (II)

## **GRE W 4139x. Greek Syntax.**

Writing of sentences and connected passages in Greek.—L. Taran.

*Prerequisite:* At least four terms of Greek or equivalent.

3 points. Th 11:00-12:50.

## **GRE V 3997x, GRE V 3997y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

*Permission of the chairman of the department required.*

3 points. Hours to be arranged.

## **GRE V 3998x, GRE V 3998y. Supervised Research in Greek Literature.**

Program of research in Greek literature, with the composition of a paper embodying results.—Staff.

*Permission of the chairman of the department is required.*

3 points. Hours to be arranged.

## **GRE W 4106x-GRE 4105y. History of Greek Literature.**

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D.—x: J. Coulter; y: R. Janko.

*Prerequisite:* At least two terms of Greek beyond BC 2011 and BC 2012.

4 points. Tu 4:10-6:00, Th 4:10-5:00. (II)

## **LATIN LANGUAGE AND LITERATURE**

### **LAT BC 1001x-LAT BC 1002y. Elementary Full-Year Course.**

Autumn: Grammar, composition, and reading.

Spring: Complete review of grammar and syntax; emphasis on representative readings.—

L. Lenaghan.

*BC 1001 is normally prerequisite to BC 1002. BC 1002 may be taken without BC 1001 by permission of the instructor.*

4 points.

*No credit is given for BC 1001 until BC 1002 is completed.*

M W F 11:00-12:15.

### **LAT W 1101x-LAT W 1102y. Elementary Course.**

Equivalent to BC 1001-BC 1002.—Staff.

4 points.

*No credit is given for W1101 until W1102 is completed.*

*Section I M W F 11:00-12:15.*

*Section II M W F 2:40-3:55.*

*Section III M W Th 6:10-7:25.*

### **LAT W 1101y-LAT W 1102x. Elementary Course.**

Equivalent to BC 1001-BC 1002, but given in the Spring and Autumn.—Staff.

4 points.

*No credit is given for W1101 until W1102 is completed.*

*Section I M W F 1:10-2:25.*

*Section II M W Th 6:10-7:25.*

### **LAT BC 2003x. Cicero: Selections.**

Cicero's *Pro Caelio* and relevant selections from Catullus and Sallust to illustrate the social, political, and intellectual character of the Ciceronian age. Weekly assignments designed to review forms and syntax.—D. Selden.

*Prerequisite:* BC 1001-BC 1002 or 2-3 years high school Latin.

4 points. M W F 10:00-10:50, Th 4:10-5:00. (II)

### **LAT W1201y. Cicero**

Equivalent to BC2003.—M. Santirocco.

*Prerequisite:* BC 1001-BC 1002 or 2-3 years high school Latin.

4 points. M W 1:10-2:25, F 10:00-10:50. (II)

### **LAT BC 2004y. Vergil.**

Selected books of the *Aeneid* with attention to meter, the epic form, and the literary and political issues of the Augustan age.—D. Selden.

*Prerequisite:* BC 1001-BC 1002 or 2-3 years high school Latin.

4 points. M W 2:40-3:55, Tu 4:10-5:00. (II)

### **LAT W 1202x. Vergil.**

Equivalent to BC 2004.

*Prerequisite:* BC 1001-BC 1002 or 2-3 years high school Latin.

4 points.

*Section I M W 2:40-3:55, F 10:00. P. Knox.*

*Section II M W 6:10-7:25, F 10:00. Instructor to be announced.* (II)

### **LAT W 1203y. Ovid: Selections from the Metamorphoses.**

A. Cameron.

*Prerequisite:* BC 1001-BC 1002 or 2-3 years high school Latin.

4 points. M W 2:40-3:55, F 10:00. (II)



## **LAT V 3012x, LAT V 3012y. Lyric Poetry.**

Selections from Catullus' polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics.

x: J. Solodow. y: H. Foley.

*Prerequisite:* BC 2004 or four years of high school Latin.

3 points. x: Tu Th 4:10-5:25.

y: M W 1:10-2:25. (II)

## **LAT BC 3033y. Medieval Literature.**

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—L. Lenaghan.

*Prerequisite:* Three semesters of college Latin or permission of the instructor.

3 points. M W 1:10-2:25. (II)

## **LAT V 3305x. Historians.**

Livy Book I and selections from Books II and V. The romance of the past. Roman destiny and the moral tradition. The historian's dual responsibility toward his subject matter and the literary requirements of the genre.—L. Lenaghan.

*Prerequisite:* Course V 3012 or the equivalent.

3 points. M W 2:40-3:55. (II)

## **LAT V 3306y. Roman Satire.**

Selected satires of Horace and Juvenal: their literary and historical background, purpose, style, and influence.—M. Santirocco.

*Prerequisite:* Course V3012 or the equivalent.

3 points. M W 2:40-3:55. (II)

## **LAT V 3307x. Elegiac Poetry.**

*Prerequisite:* Course V 3012 or the equivalent.

*Offered in alternate years. Not offered in 1985-86.*

3 points. (II)

## **LAT V 3308y. Philosophy.**

*Prerequisite:* Course V 3012 or the equivalent.

*Offered in alternate years. Not offered in 1985-86.*

3 points. (II)

## **LAT V 3309x. Selections from Latin Literature, I.**

Content of course changes from year to year; it may be taken for credit in successive years. Topic for 1984-85: Vergil's *Eclogues* and selections from the *Georgics*, with attention to the background of Greek pastoral and the neoterics.—P. Knox.

*Prerequisite:* Course V 3012 or the equivalent.

3 points. T Th 10:35-11:50. (II)

## **LAT V 3310y. Selections from Latin Literature, II.**

Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1984-85: Selections from Cicero's orations and philosophical works.—J. Cusick.

*Prerequisite:* Course V 3012 or the equivalent.

3 points. Tu Th 10:35-11:50. (II)

## **LAT W 4139x. Latin Syntax.**

Writing of sentences and connected passages in Latin.—J. Solodow.

*Prerequisite:* At least four terms of Latin or the equivalent.

3 points. W 11:00-12:50.

## **LAT V 3997x, LAT V 3997y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff.

*Permission of the chairman of the department required.*

3 points. Hours to be arranged.

## **LAT V 3998x, LAT V 3998y. Supervised Research in Latin Literature.**

A program of research in Latin literature, with the composition of a paper embodying results. —Staff.

*Permission of the chairman of the department required.*

3 points. Hours to be arranged.

## **LAT W 4105x-LAT W 4106y. History of Latin Literature.**

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D.—x: M. Santirocco; y: P. Knox.

*Prerequisite:* At least two terms of Latin beyond Course V 3012.

4 points. Tu 4:10-5:00, Th 4:10-6:00. (II)

## **GRADUATE COURSES**

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

## **MODERN GREEK LANGUAGE AND LITERATURE**

### **MGR BC 1001x-MGR BC 1002y. Elementary Full-Year Course.**

Introduction to Demotic Greek; emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading.—D. Gregory.

*Work in the language laboratory is required.*

3 points.

*No credit is given for BC 1001 until BC 1002 is completed.*

Tu Th 2:30-4:00.

# Classics

## **MGR BC 2003x. Intermediate Course, I.**

More complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis; grammar and syntax review; conversation; short weekly compositions.—D. Gregory.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

3 points. Tu Th 4:10-5:55.

*Additional hour for conversation M 12:00-1:00.*

## **MGR BC 2004y. Intermediate Course, II.**

Selected readings from Modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a basis for discussion and composition. Poems by Solomos, Palamas, Cavafy, Seferis; short stories and essays by Theotokas, Terzakis and others. The improvement of the student's language skills is still a primary goal.—D. Gregory.

*Prerequisite:* BC 2003 or the permission of the instructor.

3 points. Tu Th 4:10-5:25.

## **MGR BC 3005x. Prose of the Twentieth Century: 1930-1950.**

Four works representing the main trends of twentieth-century prose up to the Civil War: Myrivilis' *Life in the Tomb*, Venezis' *Aeolian Land*, Petsalis-Diomedes' *The Bell of Holy Trinity*, and Kazantzakis' *The Fratricides*. Main themes highlighted by a few relevant poems by Cavafy, Sikelianos and Seferis.—D. Gregory.

*Prerequisite:* BC 2004 or permission of the instructor.

3 points. Tu Th 10:35-11:50.

(II)

## **MGR BC 3006y. Contemporary Prose and Poetry.**

Divided equally between prose and poetry: selections from a few important works written after 1950: Samarakis' *I Refuse*, Vassilikos' *The Leaf, The Well, The Angel*, Margarita Lymberaki's *The Other Alexander*, Seferis' *Logbook III*, Ritsos' *Romiosini, Moonlight Sonata, Repetitions*, and Elytis' *The Axion Esti*.—D. Gregory.

*Prerequisite:* BC 3005 or permission of the instructor.

3 points. Tu Th 10:35-11:55.

(II)





# Computer Science

*Office: 450 Computer Science Building*

*Telephone: 280-2736*

Officers of the University offering courses listed below:

## **University Professor**

Samuel Eilenberg

## **Professors**

Theodore R. Bashkow, Zvi Galil, Jonathan L. Gross (Vice Chairman), Joseph F. Traub (Chairman), Stephen H. Unger

## **Associate Professors**

John Kender, David E. Shaw, Salvatore Stolfo, Yechiam Yemini

## **Assistant Professors**

Rodney W. Farrow, Robert Hon, Richard Korf, Michael Lebowitz, Gerald Leitner (Program Consultant), Gerald Q. Maguire, Jr., Kathleen McKeown, Krzysztof Sikorski, Grzegorz Wasilkowski (Program Consultant)

## **Visiting Professor**

Henryk Wozniakowski

## **Senior Lecturer**

Edwark Packel

## **Lecturers**

David Bantz, Fred Cohen, Jacob Gielchinsky, E.Ward Klein, Michael Townsend

## **Adjunct Professor**

Bruce Gilchrist

## **Adjunct Associate Professor**

Howard D. Eskin

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper level courses is available in topics such as artificial intelligence, computational complexity, and the analysis of algorithms, combinatorial methods, computer circuitry, data bases, mathematical models for computation, optimization, and software systems. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

The Computer Center operates two interactive systems, making nearly 100 terminals available at convenient locations on the Columbia campus, including some dormitories, with two DEC 20 RO systems. It also operates a major research facility with an IBM. In addition, a small but powerful minicomputer is available for faculty and student research. Most important computer languages are supported, including ALGOL, APL, BASIC, COBOL, FORTRAN, LISP, PASCAL, PL/I and SNOBOL. Additional equipment acquisitions are planned.

In addition to course work, students sometimes assist faculty members on research projects or on the development of software. Qualified majors often serve as consultants at the Computer Center.

# Computer Science

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. Freshmen considering a Computer Science major should take W1003. Non-majors usually take W 1001, *Introduction to Computer Programming, A*. There is also an intermediate course for nonmajors, W 3011, *Intermediate Computer Programming*. By taking W1001 or W1003 early in their college years, non-majors are able to use the computer in their upper-level studies in other departments.

## REQUIREMENTS FOR THE MAJOR

Students who plan a major in Computer Science should see a Program Consultant by the start of the sophomore year.

A total of 13 courses are required for the major.

W 1003 or W 3011	(preferably in the freshman year)
W 3203	<i>Introduction to Discrete Mathematics</i> (before the end of the sophomore year)
Mathematics	<i>Calculus I and II</i> (preferably in the freshman year)
W 3131	<i>Data Structures</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
W 3261	<i>Computability and Formal Languages</i>
W 3123	<i>Assembly Language and Computer Logic</i>
W 3204	<i>Finite Mathematics</i>

and an approved choice of four additional courses to be selected from computer science, mathematics, or statistics, at least one of which must be selected from the following list of computer science courses: W 4115, W 4117, W 4118, W 4152, W 4241, W 4242, W 4705, 4701.

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3131, W 3232, W 3123, and one of the following: W 3824, W 4115, or W 4701.

## COURSES OF INSTRUCTION

### CSC W 1001x, CSC W 1001y. *Introduction to Computer Programming, A*.

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction, ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. PASCAL.—Instructor to be announced.

Laboratory fee \$20.

3 points.

Section I: Hours to be arranged.

Section II: Hours to be arranged.

### CSC W 1003x, CSC W 1003y. *Introduction to Computer Programming, B*.

Intended primarily for students considering a major in computer science. Honors level introduction to computer programming. PASCAL. Course approval must be obtained in Computer Science Department office prior to registration.—Instructor to be announced.

Laboratory fee \$20.

3 points.

x: Hours to be arranged.

y: Hours to be arranged.

### CSC W 1005x, CSC W 1005y. *Introduction to Computer Programming, C*.

Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN. Since each section of this course is limited in size, section approval must be obtained in Computer Science Department office prior to registration.—Instructor to be announced. Laboratory fee \$20.

3 points.

Section I: Hours to be arranged.

Section II: Hours to be arranged.

### CSC W 3011x, CSC W 3011y. *Intermediate Computer Programming*.

Continuation of introductory courses; simple record structures and file processing, in both advanced BASIC and PASCAL; systems of programs and files, modeling; round off error; elementary principles of machine language and assembly language coding.—Instructor to be announced.

Laboratory fee: \$20.

Prerequisite: W 1001 or W 1005.

3 points.

x: Hours to be arranged.

y: Hours to be arranged.



# Computer Science

## **CSC W 3123x, CSC W 3123y. Assembly Language and Computer Logic.**

Assembly and machine language programming techniques; data representation; introduction to machine organization and logic circuits.—T. Bashkow.

*Prerequisite:* Introduction to computer programming.

3 points.

x: Hours to be arranged.

y: Hours to be arranged.

## **CSC W 3131x, CSC W 3131y. Data Structures.**

Data types and structure: arrows, stacks, singly and doubly linked lists, queues, trees, sets, and graphs; programming techniques for processing such structures; recursive programming, internal sorting and searching, hashing, garbage collection; storage management; rudiments of the analysis of algorithms.—Instructor to be announced.

*Corequisite:* W 3203.

4 points.

x: Hours to be arranged.

y: Hours to be arranged.

## **CSC W 3203x, CSC W 3203y. Discrete Mathematics.**

Mathematical induction, counting arguments, permutations; partially ordered sets, lattices; graphs and imbeddings, generating functions, recurrence relations; propositional calculus. —x: Instructor to be announced; y: Instructor to be announced.

*Prerequisites:* Calculus I and any introduction to computer programming.

3 points.

x: Hours to be arranged.

y: Hours to be arranged. (VI)

## **CSC W 3204y. Finite Mathematics.**

Introduction to mathematical methods in the natural and social sciences: probability, the solution of systems of linear equations, introduction to linear programming and the theory of antagonistic games.—Instructor to be announced.

*Prerequisite:* W 3203.

3 points.

Hours to be arranged.

## **CSC W 3232x, CSC W 3232y. Fundamental Algorithms.**

Continuation of W 3131. Pattern matching, lexical analysis, parsing, backtracking, divide and conquer, generating combinatorial objects, graph searching, spanning trees, external sorting and searching, 2-3 trees, balanced trees, B-trees, files; elements of data base design; other topics as time permits. Analysis

of algorithms is stressed throughout. —Instructor to be announced.

*Prerequisite:* W 3131.

3 points. Hours to be arranged.

## **CSC W 3261y. Computability and Formal Languages.**

Formal models of computation and properties; Turing machines, recursive functions; Church-Turing thesis; decidability and undecidability; recursively enumerable sets; concepts and properties of formal languages; regular, context-free, context-sensitive, phrase-structured; grammars; relationships to automata; finite state, push-down, linear bounded, Turing machines.—Instructor to be announced.

*Prerequisite:* W 3131.

3 points. Hours to be arranged.

## **CSC W 3824y. Elements of Computer Organization.**

Elements of computer design; logic design; subsystems, central processor, microprogram control, arithmetic units I/O organization, memories.—T. Bashkow.

*Prerequisite:* W 3123.

3 points. Hours to be arranged.

## **CSC W 3998x, CSC W 3998y. Undergraduate Projects in Computer Science.**

This course may be repeated for credit, but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design.—Staff.

*Prerequisite:* approval by a faculty member who agrees to supervise the work.

Up to 3 points. Hours to be arranged.

## **CSC W 4001x. Computer Programming: Engineering Applications.**

Introduction to computer programming, emphasis methods and solutions for typical applications; problem analysis and program design methodologies; out formatting; deterministic and probabilistic simulating techniques; FORTRAN. Computer terminals are available for student use.—J. Gielchinsky.

*Not offered in 1984-85.*

3 points.

## **CSC W 4114y. Assembly Language and Systems Programming.**

Assembly language programming; assemblers and macro processors; linkers and loaders; elements of job control language; large-scale programming environment.—J. Gielchinsky.

*Not allowed for credit if W 3123 is taken.*

*Prerequisite:* Any introductory course in computer programming.

3 points. Hours to be arranged.

# Computer Science

## **CSC W 4115x. Programming Languages and Translators I.**

Programming languages SNOBOL, LISP, and ALGOL; implementation of recursive functions, assemblers, and compilers; introduction to the formal description of languages and syntax-directed compilation. Students are required to write programs to be run on the equipment at the Computer Center.—Instructor to be announced.

*Prerequisites:* W 3123 or W 4114; W3131.

*3 points. Hours to be arranged.*

## **CSC W 4117y. Programming Languages and Translators II.**

Continuation of Course W 4115. Techniques in computer language implementation; application of formal language theory to design of compilers; implementation of language features such as nested procedures, reentrancy and recursion; code optimization; run-time storage organization.—Instructor to be announced.

*Prerequisites:* W 4115 and W 3261.

*3 points. Hours to be arranged.*

## **CSC W 4118x. Introduction to Operating Systems.**

Design and implementation of general purpose operating systems for digital computers: memory management, virtual memory, storage hierarchy evaluation, multiprogramming, process programming constructs, I/O device management, and file system implementation. Several operating systems, such as OS/370 and UNIX, will be studied as examples.—Instructor to be announced.

*Prerequisites:* W 3131; W 3123 or W 4114.

*3 points. Hours to be arranged.*

## **CSC W 4152y. Software Laboratory.**

Large-scale software design methodology; construction of software tools; parallel programming; case study of a medium-scale operating system; design and implementation of large-scale software projects.—Instructor to be announced.

*Prerequisite:* W 4118.

*3 points. Hours to be arranged.*

## **CSC W 4203x. Graph Theory.**

General introduction to graph theory, emphasizing algorithms: Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search, network flows, leipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits.—Instructor to be announced.

*Prerequisite:* W 3203. Not offered in 1984-85.

*4½ points.*

(VI)

## **CSC W 4231x. Analysis of Algorithms, I.**

Course E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms: counting and asymptotic evaluation; analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations, Fourite transform; models of computation; the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various models; worst-case and average behavior of algorithms; diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and khacian methods; average behavior of the simplex method. Other topics as time permits.—Z. Galil.

*Prerequisites:* W 3131, W 3203.

*3 points. Hours to be arranged.*

## **CSC W 4241x. Numerical Analysis, I.**

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of nonlinear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization-ordinary and partial differential equations. Some of these topics are covered in the sequel, W 4242.—J. Traub.

*3 points. Hours to be arranged.*

(VI)

## **CSC W 4242y. Numerical Analysis, II.**

A continuation of W 4241.

*Prerequisite:* Knowledge of a programming language. Some knowledge of differential equations and linear algebra is desirable.

*3 points. Hours to be arranged.*

(VI)

## **CSC W 4701x. Artificial Intelligence.**

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/ or graphs. Heuristic searching: depth-first, breadth-first, best-first, hill-climbing, divide and conquer, minimax,  $a-B$ ; predicate calculus, resolution theorem proving; Horn clause theorem provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits.—Instructor to be announced.

*Prerequisite:* W 3131.

*3 points. Hours to be arranged.*



# Computer Science

## **CSC W 4841y. Introduction to VSLI**

G. McGuire.

*3 points. Hours to be arranged.*

## **CSC W 4705y. Natural Language Processing.**

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP would be helpful.—Instructor to be announced.

*Prerequisite: W 3131.*

*3 points. Hours to be arranged.*

## **CSC G 4801x. Mathematical Logic.**

Introduction to mathematical logic. Fundamental notions of set theory and recursion theory; detailed discussion of propositional and predicate logic: completeness, (un-)decidability, and theorem-proving.—Instructor to be announced.

*Prerequisite: Permission of the instructor.*

*3 points. Hours to be arranged. (VI)*

## **CSC W 4995x, CSC W 4995y. Special Topics in Computer Science.**

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis.

This course may be repeated for credit.—Instructor to be announced.

*Prerequisite: Permission of the instructor.*

*3 points. Hours to be arranged.*

## **CSC W 4996x, CSC W 4996y. Special Topics in Computer Science.**

A continuation of Course W 4995, when the special topic is to be offered over two semesters.—Instructor to be announced.

*Prerequisite: Permission of the instructor.*

*3 points. Hours to be arranged.*

## **Computer Science-Philosophy G 4802y. Mathematical Logic II.**

Axiomatic set theory: ordinals, cardinals, the axiom of choice, models of set theory. Definability; hierarchies of sets of integers. Connections between set theory and theory of computability.—Instructor to be announced.

*Prerequisite: G 4801 or equivalent.*

*3 points. Hours to be arranged.*

*Prerequisite: Permission of the instructor.*

*3 points. Hours to be arranged.*



# Dance

Office: 204 Barnard Hall Annex

Telephone: 280-2995

## Professor

Jeanette Roosevelt (Chairman)

## Associate Professor

Sandra Genter

## Adjunct Associate Professor

Anna Kisselgoff, Tobi Tobias

## Senior Associate

Janet Soares

## Associates

Janis Ansley-Ungar, Cynthia Novack

## Lecturer

Elizabeth Fleischer

The Barnard Dance Department offers studio classes in modern dance, ballet, tap dance, and jazz. In addition, it offers skilled dancers the opportunity to perform in workshop presentations, in concerts, and in programs integrated with drama productions and those of other departments in the College. It sponsors symposia, master classes conducted by guest artists, and other special events. Interested students should confer with the dance faculty.

In keeping with the philosophy of liberal education, the dance course offerings aim to provide students with both conceptual and technical background in the craft of the art form today, as well as an understanding of its historical development. After graduation, a student interested in performance, choreography, or critical writing would continue to develop as an artist through the practice of the craft. Those interested in teaching, in dance therapy, in historical research, or in the specialized systems of dance notation would pursue further study in graduate school or in a special institute.

Students looking toward a career in dance performance or choreography should consult the announcement on the Program in the Arts, page 74, and should discuss their plans with the department chairman as soon as possible.

## REQUIREMENTS FOR THE MAJOR (Program in the Arts)

Students wishing to major in Dance within the Program in the Arts are required to take the following thirteen courses:

Arts BC 3031

*Imagery and Form in the Arts*

Arts BC 3351

*Junior Colloquium*

Arts BC 3591

*Senior Seminar*

Dance BC 2561, BC 2562

*Dance Workshop I, II*

Dance BC 2563, BC 2564

*Dance Composition*

Dance BC 2565, BC 2566

*History of Dance*

Dance BC 2567

*Fundamentals of Music for Dancers*

Dance BC 3571-BC 3572

*Dance Workshop III, IV*

Dance BC 3574

*Contemporary Choreographers and their Works*



## REQUIREMENTS FOR THE MINOR

A total of 6 courses to be selected in consultation with the department chairman are required for the minor. The selection must include three from courses BC 1555, BC 2561, BC 2562, BC 2563, BC 2564 and BC 3571, BC 3572; and three from BC 2565, BC 2566, BC 2567, BC 2568, BC 3574 and BC 3576.

## COURSES OF INSTRUCTION

### DAN BC 1551x, DAN BC 1552y. Modern Dance Technique and Theory.

Studio work in intermediate modern dance technique, including study of the elements of movement based on the theories and techniques of selected modern dance artists. Emphasis is on experiencing dance; readings, films, and discussion accompany the studio work.

*Section I M W 4:10-6:00.—S. Genter.*

*Section II Tu Th 4:10-6:00.—C. Novack.*

*Prerequisite: Intermediate skill level in modern dance technique.*

*2 points.*

### DAN BC 1553x, DAN BC 1554y. Ballet Technique and Theory.

Studio work in intermediate ballet technique, including study of the components of movement using examples selected from various ballet traditions. Emphasis is on experiencing ballet as a dance technique. Comparison of the styles of the different schools through the study of variations; readings, films, and discussion accompany the studio work.—J. Ansley.

*Prerequisite: Intermediate skill level in ballet technique.*

*2 points. M W 4:10-6:00.*

### DAN BC 1555x. Ensemble Dance Repertory.

The learning of excerpts and an entire dance work from the ensemble repertory of major choreographers as well as a commissioned work by a professional choreographer-in-residence. Introduction to reading Labanotation. Films, videotapes, readings, and discussion accompany the studio work.—J. Soares.

*Prerequisite: Intermediate skill level in ballet or modern dance.*

*2 points. F 2:00-5:00.*

### Dance Workshops: Analysis of Structure and Function in Dance.

Studio work in ballet and modern dance technique, plus a weekly session of lecture/discussion. Emphasis on either ballet or modern dance; all students must schedule five studio classes per week in addition to the lecture/discussion session.

### DAN BC 2561x. Dance Workshop I.

Functional anatomy for the dancer; study of the structural and mechanical principles of human movement. Assignments include readings and keeping a journal.—S. Genter.

*Prerequisite: Intermediate skill in either ballet or modern dance.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### DAN BC 2562y. Dance Workshop II.

Analysis of space, time, and force in dance movement, including exploration of how these elements operate in producing dance style. Assignments include readings, keeping a journal, and developing short movement studies.—S. Genter.

*Prerequisite: Intermediate skill in either ballet or modern dance.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### DAN BC 3571x. Dance Workshop III.

Advanced analysis of movement with emphasis on interrelationships and varying uses of rhythm, space, and dynamics for the developing dancer. Assignments include learning excerpts from dance repertory, readings, keeping a notebook, and presentations of individual research for discussion.—J. Soares.

*Prerequisites: Dance BC 2561 and BC 2562.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

### DAN BC 3572y. Dance Workshop IV.

Advanced analysis of the relationship of technique to style in dance movement through the study of specific dance works. Assignments include study of the materials through readings, films, and video tapes; keeping a notebook with analysis of works; and performance of the dances, with students responsible for lighting and costuming the presentation.—J. Soares.

*Prerequisites: Dance BC 2561, BC 2562, and BC 3571.*

*4 points. F 12:30-2:00, plus studio classes as described above.*

# Dance

## **DAN BC 2563x. Form in Dance**

### **Composition.**

Development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement.—J. Soares.

*Prerequisite: Facility in dance technique. Permission of the instructor required. Enrollment limited to 12 students.*

*3 points. M W 1:30-3:00.*

## **DAN BC 2564y. Content in Dance**

### **Composition.**

Research in the source materials of dance composition and exploration of their uses in choreography, including gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis on unity of style in the work of each student.—J. Soares.

*Prerequisite: Facility in dance technique. Permission of the instructor required. Enrollment limited to 12 students.*

*3 points. M W 1:30-3:00.*

## **DAN BC 2565x, DAN BC 2566y. History of Dance.**

History and aesthetics of dance explored through film, slides, readings, and studio demonstration. Autumn Term: dance as ritual, dance in antiquity, folk and ethnic dance forms, and dance in the theater of the East. Spring Term: ballet and modern dance from the Renaissance to the present time.—J. Roosevelt.

*3 points. M W F 11:00.*

(I)

## **DAN BC 2567y. Fundamentals of Music for Dancers.**

An intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of the elements of rhythm, tonality, musical structure, texture and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading and elementary composition.—E. Fleischer.

*3 points. Hours to be arranged.*

## **DAN BC 2568y. Dance and Movement: An Anthropological Approach.**

An investigation of the theories and methods used to observe and analyze dance and movement in symbolic and social contexts. Critical examination of texts from the literature of anthropology and of dance. Course includes film-viewing, practice in making observations, and a fieldwork project. Open to students in dance, anthropology, and related fields.—C. Novack.

*3 points. Offered in alternate years. Not offered in 1984-85.*

## **DAN BC 3574y. Contemporary Choreographers and Their Works.**

Form, style, and content of selected contemporary choreographers. Sources include film, videotape, attendance at rehearsals and concerts, and interviews.—A. Kisselgoff.

*Offered in alternate years. Not offered in 1984-85. 3 points.*

## **DAN BC 3576y. Dance Criticism.**

Intensive practice in writing about dance. Readings drawn from nineteenth- and twentieth-century dance criticism. Observation includes weekly performances and classroom videotape sessions.

*Permission of the instructor required.*

*M 4:10-6:00.*

*3 points.*

## **STUDIO DANCE COURSES**

Courses listed below may be offered in fulfillment of the physical education requirement.

For information regarding time and place of classes and instructors, consult the Directory of Classes for the appropriate semester.

## **Modern Dance**

Technique of contemporary dance with particular emphasis on good alignment and an understanding of the principles of body movement; opportunities for experiments in improvisation and in creating movement phrases.

## **DAN BC 1330x, DAN BC 1330y. Beginning Modern Dance. (A)**

## **DAN BC 1331x, DAN BC 1331y. Low Intermediate Modern Dance. (B)**

## **DAN BC 2332x, DAN BC 2332y. Intermediate Modern Dance. (C)**

## **DAN BC 3333x, DAN BC 3333y. Advanced Modern Dance. (D)**

## **Ballet**

Technique of classical ballet.



**DAN BC 1135x, DAN BC 1135y. Beginning Ballet. (A)**

Previous study of another dance style strongly recommended before beginning ballet.

**DAN BC 1136x, DAN BC 1136y. Low Intermediate Ballet. (B)**

**DAN BC 2137x, DAN BC 2137y. Intermediate Ballet. (C)**

**DAN BC 3138x, DAN BC 3138y. Advanced Ballet. (D)**

**Jazz Dance**

Incorporation of ballet and modern dance technique in the distinctive style of jazz dance.

**DAN BC 2248y. Jazz Dance (B, C)**

**Tap Dance**

Basic tap dance steps and dances of traditional tap styles, including buck, soft shoe, and rhythm buck.

**DAN BC 1446x. Beginning Tap Dance. (A)**

**DAN BC 2447y. Intermediate Tap Dance. (B)**



# Economics

Office: 4A Lehman Hall

Telephone: 280-3454

## Professors

Duncan Foley, Deborah Milenkovitch (Chairman)

## Visiting Professor

Gerard Dumenil

## Assistant Professors

David Arsen, Bettina Berch, M.C. Bicchieri, Andre Burgstaller,<sup>2</sup> Gregory DeFreitas,<sup>1</sup> Gikas Hardouvelis, Juliet Schor<sup>1</sup>

## Visiting Assistant Professor

Penelope Ciancanelli

## Adjunct Assistant Professors

Thomas Bailey, Gerald Epstein, Joan Greenbaum

## Instructors

Thomas Cunningham, Murat Koprulu

Other officers of the University offering courses listed below:

## Professors

Phillip D. Cagan, Arnold Collery, Ronald E. Findlay, Seymour Melman (*Industrial and Management Engineering*), Robert Mundell, James I. Nakamura,<sup>3</sup> Harold Watts,<sup>1</sup> Stanislaw Wellisz

## Visiting Professor

Carlos Diaz-Alejandro

## Associate Professor

Maurice Obstfeld

## Visiting Associate Professors

James W. Albrecht, Samuel Bukovetsky

## Adjunct Associate Professors

Nelson Fraiman, Carl Riskin, Marvin Weiss

## Assistant Professors

Joseph G. Altonji,<sup>1</sup> Ralph Braid, Nicholas S. Economides, John E. Kambhu, Vijay Krishna, Martin Osborne,<sup>1</sup> John D. Wilson,<sup>1</sup> Michael Woodford, Asad Zaman

## Adjunct Assistant Professor

Michael Edelstein

## Special Lecturer

C. L. Harris

## Lecturer

Mohammed Yeganeh

<sup>1</sup>Absent on leave, 1984-85

<sup>2</sup>Absent on leave, Autumn Term

<sup>3</sup>Absent on leave, Spring Term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. The major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the Barnard program is to foster a critical understanding of economics and its relations to other disciplines in the course of developing students' mastery of modern economic theory and tools of analysis.

Students planning to major in economics or political economy should complete Economics BC 1001 and BC 1002 before the beginning of their junior year. The department recommends that students plan their programs so as to complete all major requirements except one or two elective courses before they begin to write their senior essay.

For information regarding credit for advanced placement, students should consult the department chairman.



## REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary analysis but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department as early in their planning as possible.

### Economics

The Economics major requires 2 courses in Calculus and 10 in Economics, including

Economics BC 1001, BC 1002	<i>Introduction to Economics</i>
Economics BC 3033	<i>Intermediate Macroeconomic Theory</i>
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics V 1411	<i>Introductory Probability and Statistics for Economics</i>

3 electives, 2 of which require Economics BC 1001-BC 1002 as a prerequisite; and Economics BC 3061-BC 3062.

### Political Economy

The Political Economy major requires 12 courses, including

Economics BC 1001, BC 1002	<i>Introduction to Economics</i>
Economics BC 3034	<i>Intermediate Macroeconomic Theory</i>
or	
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics BC 3041	<i>The Theoretical Foundations of Political Economy</i>
Economics BC 3042	<i>The Policy Applications of Political Economy</i>

5 electives, including 2 Economics courses that require Economics BC 1001 and BC 1002 as prerequisites, and an upper-level course in Political Science; and Economics BC 3061, BC 3062.

Political Economy majors must have their elective programs approved by their major advisers and file a major elective form with the department no later than registration of the first semester of their senior year.

Political Economy majors who wish to take International Economics, Industrial Organization, Labor Economics, Comparative Economic Systems or Public Finance in their elective programs should take Intermediate Microeconomic Theory. Students who wish to take electives in Monetary Economics, Development, or International Finance should take Intermediate Macroeconomic Theory.

Political Economy majors who plan to go to graduate school in Business or in International Relations with an Economics concentration should take one semester of credit college math (either pre-calculus or calculus), both Intermediate Theory courses, and Economics V 1411.

Political Economy majors who plan to go to graduate PhD programs in Economics should take one year of calculus, both Intermediate Theory courses, and Economics V 1411 and Econometrics among their Economics electives.

# Economics

## Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry. Beyond that, we highly recommend that majors take at least two semesters of calculus (required of economics-track majors). *General information for Economics students (available at the department office) contains specific departmental suggestions concerning appropriate mathematics courses.*

## REQUIREMENTS FOR THE MINOR

The minor in economics requires 5 courses, including Economics BC 1001, BC 1002, BC 3033 or BC 3034 or BC 3035, or an equivalent, and two electives, one of which has Economics BC 1001, BC 1002 as prerequisite.

## COURSES OF INSTRUCTION

Barnard Economics BC 1001 and BC 1002 are equivalent to Columbia Economics W 1104 and 1103, Barnard Economics BC 3033 and BC 3034 to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211.

## GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

### ECO BC 1001x, ECO BC 1001y. Introduction to Economics.

The department posts sign-up sheets for admission to sections of Economics BC 1001 and BC 1002 outside Lehman 4A. For Autumn Term courses, these are posted March 15, and for Spring Term courses, November 1.

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government, finance and monetary economics, economic growth and inequality. (Macroeconomic Principles)—Staff.

*Enrollment limited to 40 students per section. See department for sign-up sheets.*

3 points.

x: Section I Tu Th 9:10-10:25.

Section II Tu Th 2:40-3:55.

Section III Tu Th 1:10-2:25.

Section IV M W F 10:00.

y: Section I Tu Th 10:35-11:50.

Section II M W 2:40-3:55.

Section III M W F 11:00. (V)

### ECO BC 1002x, ECO BC 1002y. Introduction to Economics.

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems. (Microeconomic Principles)—Staff.

*BC 1001 is not a prerequisite for BC 1002.*

*Enrollment limited to 40 students per section. See department for sign-up sheets.*

3 points.

x: Section I Tu Th 1:10-2:25.

Section II Tu Th 10:35-11:50.

y: Section I M W 1:10-2:25.

Section II Tu Th 2:40-3:55.

Section III M W F 10:00. (V)

### CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches.

*Prerequisite: One course in economics or sophomore standing.*

### ECO BC 2010y. Sex, Discrimination, and the Division of Labor.

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework and child-bearing; role of government and unions in structuring women's options, and some international comparisons.—B. Berch.

3 points. Tu Th 10:35-11:50. (V)

### ECO BC 2013x. Economic History of the United States.

Economic transformation of America, colonial period to the present; growth in output, technological change, labor and business organization.—B. Berch.

3 points. Tu Th 10:35-11:50. (V)

### ECO BC 2014y. Topics in American Economic History.

Four controversial topics explored in depth; emphasis on methodological alternatives and their analytical implications.—B. Berch.

*Prerequisites: BC 1001 or BC 1002, and BC 2013. Permission of the instructor required.*

3 points.

Th 2:10-4:00. (V)

### ECO BC 2023x. Inflation and Depression: Causes and Consequences.

*Not offered in 1984-85.*

3 points.

### ECO BC 2025x. World Economy.

Impact of multinationals, commodity cartels, and international financial institutions in the 1970s.—G. Dumenil.

3 points. Tu Th 4:10-5:25. (V)



## ECO BC 2026y. Modern Capitalism.

Organization of Production under contemporary capitalism and resulting class structure. Contemporary mainstream economic analysis contrasted with that of the institutionalists, traditional Marxists, and current radical schools of thought.—J. Greenbaum.

3 points. Hours to be arranged. (V)

## ECO BC 2032y. Money and Capital Markets.

Institutional nature and economic function of money and capital markets, primarily in U.S., but also “Euro-currency” credit markets. Each market described and related to broad issues of credit flows from savers to investors, interest rate determination, financial liquidity, etc.—Staff.

*Prerequisite:* BC 1001 or BC 1002.

3 points. M W 2:40-3:55 (V)

## SPECIALIZED COURSES

### ECO BC 3011y. Poverty and Income Distribution.

*Prerequisites:* BC 1001 and BC 1002, or permission of the instructor.

Not offered in 1984-85.

3 points. (V)

### ECO BC 3016x. Government Finance and Fiscal Policy.

*Prerequisites:* BC 1001, BC 1002, and BC 3035, or permission of the instructor.

Not offered in 1984-85.

3 points. (V)

### ECO V 1411x. Introductory Probability and Statistics for Economics.

Introduction to probability and statistics with applications to economics; descriptive statistics; basic probability theory; point and interval estimation; hypothesis testing; basic aspects of regression and correlation analysis.—G. Hardouvelis.

*Prerequisite:* Sophomore standing or permission of the instructor.

3 points.

Lecture M W 1:10-2:25.

Laboratory M Tu or W 4:10-6:00, or W 2:40-3:55. (V)

### ECO BC 3018y. Introductory Econometrics.

Introduction to specification and estimation of economic relationships using economic theory, data and statistical inference; single-equation estimation; multiple- and simultaneous-equation systems; econometric analysis of topics such as investment, wage and employment discrimination, etc.—T. Bailey.

*Prerequisites:* BC 1001 and BC 1002, and V1411, or permission of the instructor.

4 points.

Lecture M W 2:40-3:55.

Laboratory Tu 2:10-4:00 or W 4:10-6:00. (V)

## ECO BC 3019y. Labor Economics.

Factors affecting the allocation and remuneration of labor: population structure; unionization and monopsony; education and manpower training, mobility and information; sex and race discrimination; unemployment; and public policy.—Staff.

*Prerequisites:* BC 1001, and intermediate microeconomic theory or permission of the instructor.

3 points. M W 1:10-2:25. (V)

## ECO BC 3029x. The Economics of Underdeveloped Areas.

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy.—P. Ciancanelli.

*Prerequisites:* BC 1001, BC 1002 or permission of the instructor.

3 points.

Tu Th 10:35-11:50. (V)

## ECO BC 3030x. Comparative Economic Systems.

*Prerequisites:* BC 1001, BC 1002 and Intermediate Microeconomic Theory or permission of the instructor.

Not offered in 1984-85.

3 points. (V)

## ECO BC 3031x. The Development of Economic Thought, 1770-1970.

Not offered in 1984-85.

3 points. (V)

## ECO BC 3033x, ECO BC 3033y.

### Intermediate Macroeconomic Theory.

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments.

*Prerequisites:* BC 1001 and BC 1002 and a functioning knowledge of high-school algebra and analytical geometry.

Primarily for majors in the Economics track.

3 points. Students may not take BC 3033 for credit in addition to BC 3034.

x: Tu Th 10:35-11:50.—M. Koprulu.

y: Tu Th 1:10-2:25.—A. Burgstaller. (V)

## ECO BC 3034x. Intermediate Macroeconomic Theory.

Mainstream macroeconomic models (in less mathematical detail than in BC 3033). Economic theories concerning business cycles, unemployment, inflation, and the distribution of income. The aim of the course is to make students more familiar with the main schools of economic thought, so that they may better assess how well such theories illuminate contemporary issues.—D. Arsen.

*Prerequisites:* BC 1001 and BC 1002.

Primarily for majors in the Political Economy track. Students may not take BC 3034 for credit in addition to BC 3033.

3 points. M W 2:40-3:55. (V)

# Economics

## **ECO BC 3035x, ECO BC 3035y.**

### **Intermediate Microeconomic Theory.**

Behavior of markets, resource allocation, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem solving.

3 points.

*x: Prerequisites: BC 1001 and BC 1002, 2 semesters of calculus for economists (Calculus IE, IIE) or 3 semesters of regular calculus (Calculus I, II, III). This section is primarily for students in the Economics track. Tu Th 1:10-2:25.—T. Cunningham. (V)*

*y: Prerequisites: BC 1001 and BC 1002 and a functioning knowledge of high-school algebra and analytical geometry. This section is primarily for students in the Political Economy track. Tu Th 10:35-11:50.*

*—A. Burgstaller. (V)*

## **ECO BC 3041x. The Theoretical Foundations of Political Economy.**

Intellectual origins of the main schools of thought in political economy. Classical political economy, Marxian economics, Neoclassicism, Keynesianism, and Monetarism. Theoretical controversies in twentieth-century political economy.—D. Foley.

*Prerequisites: BC 1001 and BC 1002.*

*3 points. Tu Th 2:40-3:55. (V)*

## **ECO BC 3042y. The Policy Applications of Political Economy.**

Major policy perspectives within political economy; “laissez-faire” conservatism, middle-of-the-road reformism, and socialist revolution. Contemporary policy questions of inflation, income distribution and poverty, and foreign aid.—M. C. Bicchieri.

*Prerequisites: BC 1001, BC 1002, and BC 3041.*

*3 points. Tu Th 2:40-3:55. (V)*

## **ECO BC 3044y. U.S. Industrial Policy.**

Critical examination of alternative policies to improve U.S. economic performance. Trade policy, labor-management relations, technology development, national economic planning. Reference to past U.S. experience and comparisons with Japan and Western Europe.—D. Arsen.

*Prerequisites: BC 1001 and BC 1002.*

*3 points. M W 1:10-2:25. (V)*

## **Economics-History ECH BC 3056x. History of Women's Work.**

Women's experience through an analysis of women's work; economically productive uses of women's labor (maintenance of the household, childbearing, as well as paid work in the labor market); dynamics of the changes in these spheres of women's work activity. The focus of the course is on the American experience, the approach is historical and comparative.— B. Berch.

*Prerequisite: A substantial background in history and/or economics is recommended. Written permission of the instructor is required. Enrollment limited to 15 students.*

*3 points. Th 2:10-4:00. (IV or V)*

## **ECO BC 3061x, ECO BC 3062y. Senior Research Seminar.**

Discussions and conferences on the researching and writing of the senior essay.—Staff.

*Prerequisites: BC 1001, BC 1002, BC 3033, BC 3035 and V1411, or BC 1001, BC 1002, BC 3034, BC 3041, and BC 3042. See department for sign-up sheets.*

*4 points. Th 4:10-6:00.*

## **ECO BC 3063x. Seminar: Topics in Economic Theory.**

Section I—Examination of major issues in and approaches to the study of economic growth and distribution. Post-Keynesian and Marxian theories of stagnation/crisis. Imperialism, long waves, technological change.—D. Arsen.

Section II—The role of expectations in dynamic economic models. “Rational expectations” in relation to rationality, hypothesis testing, determinacy of equilibrium and the effectiveness of macroeconomic policy.—M. Woodford.

*Prerequisite: BC 3033 or BC 3034, or permission of the instructor. Enrollment limited to 15 students per section. See department for sign-up sheets.*

*4 points.*

*Section I W 4:10-6:00.*

*Section II Th 4:10-6:00.*

## **ECO BC 3064y. Seminar: Topics in Economic Policy.**

—Staff.

*Prerequisites: BC 3033 or BC 3034, and BC 3035, or permission of the instructor.*

*Not offered in 1984-85.*

*4 points.*

## **ECO BC 3099x, ECO BC 3099y. Independent Study.**

—Staff.

*Points to be arranged.*

*Hours to be arranged.*



## ECO W 4258x. Worker Management.

Theory and practice of the labor-managed firm in advanced industrial nations and in developing countries, with special reference to the experience of Yugoslavia. Microeconomic and macroeconomic implications of the labor-managed economy.—D. Milenkovitch.

*Prerequisite:* W 321I.

3 points. M W 2:40-3:55. (V)

## ECO G 4328y. Economic Development.

Theory and practice of economic planning in the underdeveloped world: resource mobilization and foreign aid, capital movements, and industrialization strategies. A critical approach linking the theory to contemporary case examples.—S. Wellisz. *Permission of the instructor required. Enrollment limited to 40 students.*

3 points. Tu Th 9:05-10:20. (V)

## ECO W 4430x. Marxist Economic Theory.

Critical examination of Marxist economic theory, using Marx's texts and more recent Marxist writings. Application of Marxist ideas to current economic problems. Labor theory of value. Marx's theory of money, class and exploitation, the expanded reproduction of capital, productive and unproductive labor, rent, the rate of profit.—G. Dumenil.

*Some previous work on Marxism desirable but not required.*

3 points. Tu Th 1:10-2:25. (V)

## ECO W 4431y. Advanced Topics on Marxist Economics.

*Prerequisite:* W 4430 or the equivalent, or permission of the instructor.

*Not offered in 1984-85.*

3 points.

## ECO W 4524y. Economic Organization of Eastern Europe.

Organization and performance of Soviet-type economies; pressures for change; comparison of reforms in Yugoslavia, Eastern Europe and the Soviet Union.—D. Milenkovitch.

*Prerequisite:* W 1103-W 1104.

3 points. M W 2:40-3:55. (V)

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.

## ECO W 3228x. The Urban Economy.

—R. Braid.

*Prerequisite:* W 321I.

3 points. Hours to be announced. (V)

## ECO W 3251x, y. Industrial Organization.

x: N. Economides; y: J. Kambhu.

*Prerequisites:* W 1103-W 1104 and W 321I.

3 points. x: Hours to be arranged. y: Tu Th 2:40-3:55. (V)

## ECO W 3257x. The War Economy.

—S. Melman.

*Prerequisite:* Economics W 1103 or the equivalent.

3 points. M 2:10-4:00, W 2:10-3:00. (V)

## ECO W 3261x, ECO W 3261y. Introduction to Accounting and Finance.

Section I: N. Fraiman; Section II: M. Weiss.

4 points.

*Section I* M W 7:10-9:00 p.m.

*Section II* Tu Th 12:10-2:00.

## ECO W 3313y. Economic History of the United States.

—Staff.

*Prerequisite:* W 1103-W 1104.

3 points. Tu 4:00-6:00. (V)

## ECO W 3321y. Economic Development.

—C. Diaz-Alejandro.

*Prerequisite:* Economics W 1103-W 1104 or the equivalent.

3 points. M W 6:10-7:25. (V)

## ECO W 3411x, y. Labor Economics.

—x: M. Weiss. y: J. Albrecht.

*Prerequisite:* W 321I.

3 points. Hours to be arranged. (V)

## ECO W 3412x. Econometrics.

—Instructor to be announced.

*Prerequisites:* V 141I or the equivalent, Mathematics V 111I, V 1112 (formerly the V 110I, V 1102 section for economics majors), and W 321I or W 3213.

3 points. Hours to be arranged. (V)

## ECO W 3414y. Introduction to Mathematical Economics.

—A. Zaman.

*Prerequisites:* Mathematics VIII-VIII2 or the equivalent with the instructor's permission, and W 321I.

3 points. Tu Th 10:35-11:50. (V)

## ECO W 3711x, y. Monetary Economics and Policy.

x: A. Collery. y: P. Cagan.

*Prerequisite:* W 3213.

3 points.

x: M W 6:10-7:25.

y: Tu Th 6:10-7:25. (V)

# Economics

**ECO W 3863x. Public Economics.**

—S. Bukovetsky.  
*Prerequisite:* W 321I.  
3 points. Tu Th 6:10-7:25. (V)

**ECO W 3904x, y. International Trade.**

x: A. Collery; y: R. Findlay.  
*Prerequisite:* W 321I.  
3 points. Hours to be announced. (V)

**ECO W 3905x, y. International Monetary Theory and Policy.**

—x: M. Obstfeld; y: R. Mundell.  
*Prerequisite:* W 321I.  
3 points. Hours to be announced. (V)

**ECO W 4311x. Economic History of the United States.**

—M. Edelstein.  
*Prerequisite:* W 321I or the equivalent.  
3 points. F 10:00-11:50. (V)

**ECO G 4313x. Economic History of Europe.**

—M. Edelstein.  
*Prerequisite:* W 321I or the equivalent.  
Not offered in 1984-85.  
3 points. (V)

**ECO G 4320x. Economic History of Latin America to 1950.**

—C. Diaz-Alejandro.  
3 points. M 4:10-6:00. (V)

**ECO G 4324x. Economic History of Japan.**

—J. Nakamura.  
3 points. Tu 4:10-6:00. (V)

**ECO G 4325y. Economic Organization and Development of Japan.**

—J. Nakamura.  
*Prerequisite:* the instructor's permission.  
Not offered in 1984-85.  
3 points. (V)

**ECO W 4337x. Economic Organization and Development of the Middle East.**

—M. Yeganeh.  
*Prerequisite:* W 1103-1104 or the equivalent.  
3 points. Hours to be arranged. (V)

**ECO W 4410x. Mathematical Methods for Economics.**

—A. Zaman.  
Primarily for graduate students in Economics; all others with the permission of the instructor only.  
*Prerequisite:* Elementary calculus.  
3 points. M 2:10-4:00. (V)

**ECO W 4450y. The Economics of Natural Resources.**

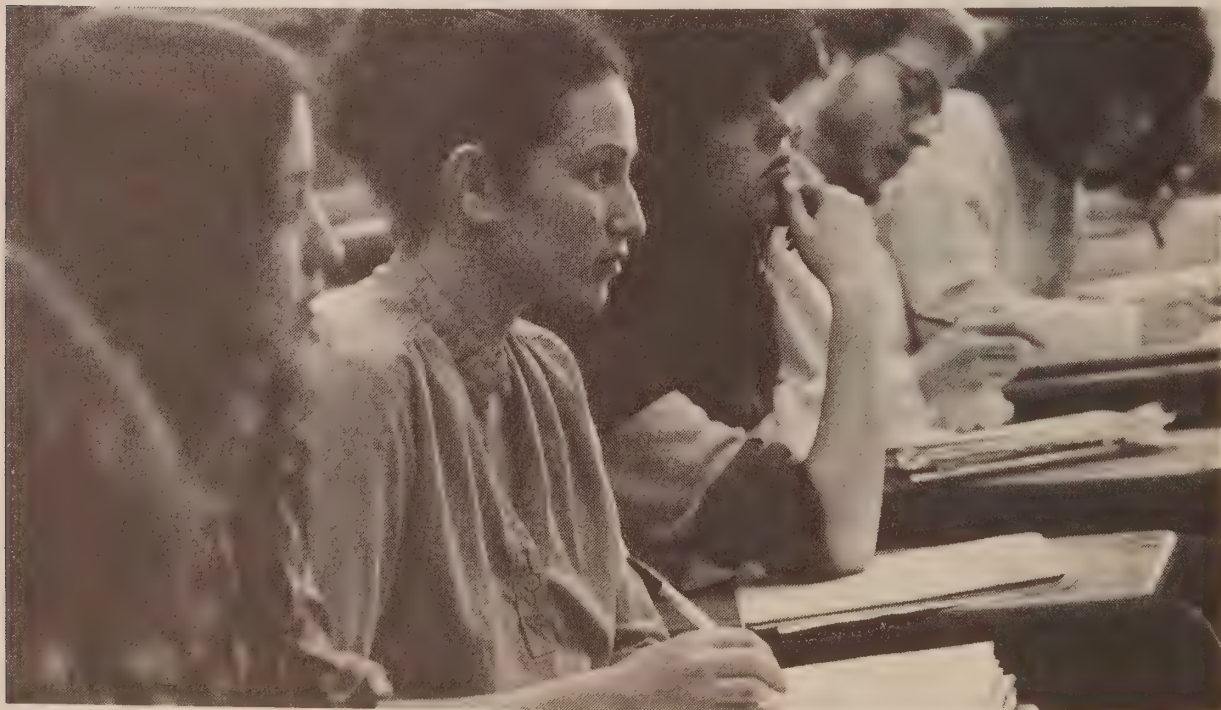
—R. Braid.  
*Prerequisite:* W 321I or equivalent, and one year of calculus.  
3 points. Tu Th 2:40-3:55. (V)

**ECO G 4527y. Economic Organization and Development of China.**

—C. Riskin.  
*Prerequisite:* W 1103-1104 or the equivalent.  
3 points. M 2:10-4:00. (V)

**ECO G 4801y. Economic Setting for Public Policy Making.**

—C. L. Harris.  
Primarily for candidates for the degree of Master of Public Administration.  
3 points. Tu 2:10-4:00. (V)





# Education

Office: 336B Milbank

Telephone: 280-2117, 5408, 8312

**Lecturer**

Susan Riemer Sacks (Director)

**Instructor**

Giselle Harrington

**Associate**

Katherine Knight Wilcox

This program is supervised by the Committee on Education:

**Professor of History and Education, Teachers College, Columbia University**

Hazel Hertzberg

**Professor of Biological Sciences**

Patricia L. Dudley

**Professor of English**

Barry Ulanov

**Associate Dean of Columbia College**

Michael Rosenthal

**Associate Dean for Student Affairs, School of General Studies**

Joseph Kissane

**Assistant Professor of Psychology**

Peter Balsam<sup>1</sup>

<sup>1</sup>Absent on leave, 1984-85.

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human services agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study. Interested students should consult with the Education Program faculty.

Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year, and applications are available in the Program office at the beginning of the Autumn Term.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Beginning September 2, 1984, students must take the National Teachers Exam as part of the certification process.

**Elementary School Program**

This track leads to the New York State Provisional Common Branch Certificate (N-6). Students participating in the elementary program must complete the following course of study:

One Psychology course, chosen from among

Psychology BC 1105

Psychology BC 1127 or BC 1129

Psychology BC 1130 or BC 1132

Psychology BC 1134

*Psychology of Learning*

*Developmental Psychology*

*Human Memory and Learning*

*Educational Psychology*

# Education

One foundations course, chosen from among

Philosophy V 3758  
Sociology V 3225  
Education BC 2032

*Philosophy of Education*  
*Sociology of Education*  
*Contemporary Issues in Education*

A third course from either of the above categories; and

One methods course.

Education BC 2052      *Competency Development in Elementary Education*

During the junior year Spring Term, all students entering the elementary education program take Education BC 2052, which involves a classroom internship one morning per week.

## Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete the following course of study:

One Psychology course, chosen from Psychology BC 1105, BC 1127 or BC 1129, BC 1130 or BC 1132, or BC 1134; and

One foundations course, chosen from Philosophy V 3758, Sociology V 3225, or Education BC 2032.

One methods course.

All students entering the secondary education program take one methods course in the student's specific subject area during the junior year. The following course is available at Barnard:

English BC 3192      *Seminar in the Teaching of English*

Juniors interested in teaching secondary mathematics, science, social studies or foreign languages take the appropriate methods course offered at Teachers College:

TC 4022x      *Mathematical Teaching and Learning:  
The Formal Operational Stage*

TC 4044x      *Biology Methods and Curriculum Laboratory*  
or

TC 4045x      *Earth and Environmental Science Curriculum and Methods*

TW 4020x      *Methods of Teaching Social Studies*  
TL 4076x      *TESTOL Methodologies for K-12*

## Senior Program

Senior students in the Education Program participate in Education BC 3063, *Teaching in the Elementary or Secondary Schools*, the field-based student teaching experience for one semester during their last year. This course provides students with the opportunity to teach. Through close supervision, the student examines the teaching experience and the interrelationship between the subject area, child and human development, the role of the school in society, and the teacher as a decision-maker. Student teaching includes observation and teaching five mornings a week for the semester.

Education BC 3064, *Seminar in the Teaching-Learning Process*, is taken concurrently with student teaching. The seminar provides a forum for discussions of the principles and practices of classroom teaching and examines in depth the education process in our society. Student teaching and the seminar should be registered for as Education BC 3063 and BC 3064 in the Autumn term, or Education BC 3063 and BC 3064 in the Spring term. It is strongly advised that no more than two other courses be taken with student teaching and the seminar.



Senior year student teaching may conflict with other training opportunities at Barnard (e.g. Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

## Requirements for the Minor

The minor requires a minimum of 5 courses: Education BC 3063, Education BC 3064, one Methods course, one Foundations course, and one Psychology course from those courses cited above.

## COURSES OF INSTRUCTION

### **EDU BC 2032x. Contemporary Issues in Education.**

Study of controversial topics confronting education in the 1980's and their relation to contemporary society. Equity in learning experiences for girls and boys, the handicapped, bilingual and gifted students will be examined. The impact of computers, television, and values teaching on schooling will be addressed. Observation in classrooms required.—S. Sacks.

4 points.

W 2:10-4:00.

### **EDU BC 2052y. Competency Development in Elementary Education.**

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. Students serve an internship one morning a week in elementary classrooms. —K. Wilcox.

*This course should be taken in the Spring Term of the junior year. It is a prerequisite to student teaching in the elementary grades. Open to Education Program applicants and others with permission of instructor.*

4 points. Tu 2:10-4:00.

### **EDU BC 3063x, EDU BC 3063y. Teaching in the Elementary or Secondary Schools.**

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelation between process, content, and values in the educational experience. (Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year.) —Staff.

*Prerequisite: Admission to Education Program.*

*Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification.*

*Enrollment limited to 30 students per year.*

4 points.

### **EDU BC 3064x, EDU BC 3064y. Seminar in the Teaching-Learning Process.**

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situations. Teaching skills are developed through individual supervision, conferences, and videotaping.—S. Sacks.

*Prerequisite: Admission to Education Program.*

*Corequisite: BC 3063.*

*Enrollment limited to 30 students per year.*

4 points. M 2:10-4:00.

### **English ENG BC 3192y. Seminar in the Teaching of English.**

English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, grading.—E. Caughran.

*For students who plan to teach or to produce teaching materials. Students will observe classes in a local high school one morning a week. Enrollment limited to 12 students.*

4 points. Tu 4:10-6:00.

### **Philosophy PHI V 3758x. Philosophy of Education.**

Philosophical presuppositions of intellectual and moral education. Selected readings from Plato, Rousseau, Piaget, Dewey, Israel, Sheffler, and current periodical literature.—R. Tregesser.

*Not open to freshmen.*

3 points. Tu Th 1:10-2:25.

### **Sociology SOC V 3225y. Sociology of Education.**

Social organization of education in the United States, with emphasis upon primary and secondary schools: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community.—H. Zuckerman.

*Permission of the instructor required.*

3 points. Tu Th 1:10-2:25.



# Education

Juniors interested in teaching secondary mathematics, science, social studies or foreign languages should take the appropriate methods course offered at Teachers College.

**TC 4022x. Mathematical Teaching and Learning: The Formal Operational Stage.**

B.Vogeli.

*3 or 4 points. Hours to be arranged.*

**TW 4020x. Methods of Teaching Social Studies.**

R. Streb.

*3 or 4 points. M 5:10-6:50.*

**TL 4076x. TESTOL Methodologies for K-12.**  
*4 points. Hours to be arranged.*

**TC 4044. Biology Methods and Curriculum Laboratory.**

C. Raab.

*3 or 4 points. Hours to be arranged.*

**TC 4045. Earth and Environmental Science Curriculum and Methods.**

W. Yasso.

*3 or 4 points. Hours to be arranged.*





# English

Office: 417 Barnard Hall

Telephone: 280-2116

## Professors

Maire Jaanus, Ruth M. Kivette, Joann Ryan Morse, Richard A. Norman,<sup>1</sup> Remington Patterson (Chairman), Anne Lake Prescott, David A. Robertson, Jr.,<sup>1</sup> Barry Ulanov

## Adjunct Professors

Joy Chute, Howard M. Teichmann

## Associate Professor

Elizabeth Dalton

## Adjunct Associate Professors

Ann Birstein, Diana Chang, Janice Farrar Thaddeus (Departmental Representative and Director of Freshman English)

## Assistant Professors

Christopher Baswell, Alfred Bendixen, Celeste Schenck, William Sharpe

## Adjunct Assistant Professor

Frank Brady

## Associates

Elizabeth Caughran, Marjorie Housepian Dobkin, Quandra Prettyman

## Lecturers

Constance Brown, Anita Parzenczewski, Florian Stuber

## Instructors

Constance Colby, Joanna Cole, Timea Szell

## Assistant

Constance Budelis

<sup>1</sup>Emeritus and Special Lecturer

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of literary works that enrich our cultural heritage.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in literature by electing appropriate courses listed under LANGUAGE AND LITERATURE.

## REQUIREMENTS FOR THE MAJOR

A major program consists of at least ten courses planned in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*).
2. In addition, she will elect five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. Two of these courses must be in literature before 1900 (BC 3153-BC 3179). She may select two of the five from courses BC 3103-BC 3140.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). For one of these seminars a student with a particular interest in writing, speech, or theatre may substitute an independent project in an advanced course in her special field.

# English

## REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: BC 3155, *Chaucer*, or BC 3163 or BC 3164, *Shakespeare*, or BC 3167, *Milton*; two additional courses in literature before 1900 (BC 3153-BC 3179); and two electives.

Program in the Arts: Students interested in this Program should see the announcement on page 74, and should consult with the Program Chairman or a member of the Program Committee.

## COURSES OF INSTRUCTION

### INTRODUCTORY

#### ENG BC 1201x, ENG BC 1201y. Freshman English.

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor. —Director and Staff. *Prescribed for all freshmen. May not be taken for pass/fail. 3 points.*

*Autumn Term sections meet at the following hours; check Spring Term hours with the Department:*  
M W F 9:00, 10:00, 11:00, 12:00, 1:10; M W 2:40-3:55; Tu Th 9:10-10:25, 10:35-11:50, 1:10-2:25, 2:40-3:55.

#### ENG BC 1202x, ENG BC 1202y. Special Studies in Writing.

For students who want additional work in writing. Section I (Autumn Term): primarily for students whose first language is not English.—C. Colby. *Permission of the instructor required. May only be taken for pass/fail. 3 points.*

x: Section I M W 12:00-12:50.  
Section II M W 1:10-2:00.  
y: Section I M W 1:10-2:00.

### WRITING

Registration in each course is limited and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Budelis (417 Barnard Hall). Two writing courses may not be taken concurrently. A major with a special interest in writing who has had two writing courses may substitute a third writing course for either BC 3997 or BC 3998 in her senior year. She will undertake an independent project in the selected writing course.

#### ENG BC 3103x, ENG BC 3104y. Exposition.

Sections I and II (Autumn and Spring Terms): English composition above the first-year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Section III

(Spring Term): Journalism and popular writing; methods of news writing and news judgment. *3 points.*

x: Section I M 2:10-4:00. Q. Prettyman.  
Section II W 12:00-1:50. J. Cole.  
y: Section I M 2:10-4:00. T. Szell.  
Section II W 12:00-1:50. J. Cole.  
Section III W 2:10-4:00. F. Brady.

#### ENG BC 3105x, ENG BC 3106y. Fiction and Non-Fiction.

Section I: primarily short stories and personal narrative. Section II: students will keep notebooks and will expand selected materials into finished works of fiction and non-fiction.

*Prerequisite: Demonstration of some creative writing ability. 3 points.*

x: Section I M 3:10-5:00. E. Dalton.  
Section II Th 4:10-6:00. M. Dobkin.  
y: Section I Tu 3:10-5:00. E. Dalton.  
Section II Th 4:10-6:00. M. Dobkin.

#### ENG BC 3107x, ENG BC 3108y. Experiments in Style.

Work in various styles and forms. *3 points.*

x: Section I W 4:10-6:00. T. Szell.  
Section II Th 4:10-6:00. A. Birstein.  
y: Section I Tu 4:10-6:00. A. Birstein.  
Section II Th 2:10-4:00. D. Chang.

#### ENG BC 3110y. Poetry.

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques.—J. Thaddeus. *3 points. Tu 2:10-4:00.*

#### ENG BC 3111x, ENG BC 3112y. Story Writing.

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor.—J. Chute.

*Prerequisite: Some experience in the writing of fiction.*

*3 points. Tu 4:10-5:00.*  
*Conference hours to be arranged.*



## **ENG BC 3113x, ENG BC 3114y. Dramatic Writing**

Development of a dramatic situation in terms of short fiction, theatre, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape and video tape.—H. Teichmann.

*Field trip to Broadway rehearsals, and network radio and television studios.*

*3 points. Tu Th 2:40-3:55.*

## **SPEECH**

Registration in each course is limited, and to elect any course in speech a student must secure the written permission of the instructor. A major with a special interest in speech who has had two speech courses may substitute a third speech course for either BC 3997 or BC 3998 in her senior year. She will undertake an independent project in the selected speech course. Her work should include BC 3121 and courses in public speaking and oral interpretation.

## **ENG BC 3121x. The Uses of Speech.**

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking.—E. Caughran.

*3 points.*

*Tu Th 2:40-3:55. Conferences with the instructor to be arranged.*

## **ENG BC 3122y. American and British Dialects.**

Study of the geographic, social, and vocational dialects of English, their importance in writing, ethnic studies, and acting performance.—E. Caughran.

*Offered in alternate years. Offered in 1985-86.*

*3 points.*

## **ENG BC 3124y. Oral Interpretation of Literature.**

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theatre.—E. Caughran.

*3 points.*

*Tu Th 2:40-3:55. Conferences with the instructor to be arranged.*

## **ENG BC 3127x. Public Speaking.**

Study of basic principles of informal and formal speaking, with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery.—E. Caughran.

*3 points. Tu Th 10:35-11:50.*

## **ENG BC 3128y. Persuasive Speaking.**

Theory and practice of persuasive speaking; use of evidence and opinion, logic, and audience motivation in presentation of controversial views and current issues.—R. Norman.

*3 points. Tu Th 10:35-11:50.*

## **THEATRE**

Registration in each course is limited, and to elect any course in theatre (except BC 3129, BC 3130, *Introduction to the Theatre*) a student must secure written permission of the instructor. Majors with a special interest in theatre should consult with a faculty member of the theatre staff concerning courses in theatre. A major who has had two theatre courses may substitute a third course in theatre for either BC 3997 or BC 3998. She will undertake an independent project in the selected theatre course.

## **ENG BC 3129x. History of the Theatre: Aeschylus to Ibsen.**

Survey of theatre with emphasis upon the origins of theatre, and the nature of the dramatic art. Individual and group projects in related research.—L. Castaños and theatre staff.

*3 points. Tu 2:10-4:00.*

*(I)*

## **ENG BC 3130y. Modern Theatre: An Introduction.**

The theatre from Ibsen to the present, with emphasis on the place of theatre in society. Attention is paid to the interrelation of dramatic literature, styles of production and the organization of theatre. Individual and group projects in related research.—L. Castaños and theatre staff.

*3 points. Tu 2:10-4:00.*

## **ENG BC 3131x, ENG BC 3132y. The Contemporary Theatre.**

Major developments in contemporary theatre, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members.—L. Castaños.

*3 points. M 2:10-4:00. Laboratory hours to be arranged.*

## **ENG BC 3133x, ENG BC 3134y. Play Production.**

Technical aspects of the theatre and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theatre.—D. Parichy.

*3 points. Tu Th 2:10-4:00.*

# English

## **ENG BC 3135x. Actor's and Director's Interpretation of Dramatic Literature.**

Practical study of Renaissance and Restoration dramatic literature for actors and directors.—J. Soares.

*Prerequisite: Some theatre experience.*

*3 points. W 3:10-5:00. Laboratory hours to be arranged.*

## **ENG BC 3137x, ENG BC 3138y. Musical Ensemble Theatre.**

Basic course developing the techniques, methods, and skills involved in the creation and performance of original theatre material. All the elements of a theatrical presentation will be used. Material created by class members will be developed and performed. The history of popular entertainment, vaudeville, musicals, film and theatre revues will be the source material for the discovery of some of the connections between traditional and modern works.—S. Kaplan.

*4 points. Tu Th 10:35-11:50. Laboratory hours to be arranged.*

## **LANGUAGE AND LITERATURE**

### **ENG BC 3140x, ENG BC 3140y. Seminars on Special Themes.**

Registration in sections is limited.

*3 points.*

### **ENG BC 3140x. II. Explorations of Black Literature.**

Ranging from the eighteenth to the early twentieth century. The slave narrative, pamphleteers and propagandists; the anonymous lyric, folklore in the Black tradition. Writers include Wheatley, Douglass, Harper, Walker, Dunbar, Chesnutt, and DuBois.—Q. Prettyman.

*Tu Th 10:35-11:50. (II)*

### **III. The City in Literature.**

The city as subject, setting, and metaphor in the Bible, Wordsworth, Dickens, Baudelaire, Whitman, Tennyson, Eliot, Joyce, Williams, and others. Heavenly and Infernal cities; the city as a model for artistic form.—W. Sharpe.

*Th 2:10-4:00. (II)*

### **VIII. Dickens and the Comic Tradition.**

The achievement of Dickens in relation to the English comic tradition; his influence on later writers.—J. Morse.

*W 2:10-4:00. (II)*

### **ENG BC 3140y. I. The Bible and the Literary Imagination.**

The influence of the King James Bible on selected works from English and American literature.—R. Kivette.

*Tu Th 10:35-11:50. (II)*

## **IX. Autobiography and Confession.**

Early models and later variations in autobiographical writing: Rousseau, Gibbon, De Quincey, Douglass, McCarthy, Wright, Nabokov, and others. Autobiography as confession, history, fiction. The particular strategies of Black writers, women writers.—J. Thaddeus.

*W 4:10-6:00. (II)*

## **X. Women and Poetry: Inscribing the Feminine.**

A reading of the feminine in selected poetry of male and female authors; a reconstruction of a tradition of women's poetry in the context of recent feminist theory: special emphasis on Romantic, Modern, and contemporary women poets.—C. Schenck.

*Th 12:00-1:50.*

## **ENG BC 3141x, ENG BC 3142y. Major English Texts.**

A general view of the history and variety of English literature through study of selected writers and their works. Autumn: Chaucer through Milton. Spring: Dryden through Eliot.—W. Sharpe.

*3 points. Tu Th 9:10-10:25. (II)*

## **English-Women's Studies EWS BC 3144y. Minority Women Writers in the United States.**

A study of the literature of twentieth-century minority women writers in the United States, with particular emphasis upon the works of Asian, Black, Hispanic, and Native American women. The works will be studied within a historical and cultural as well as literary framework—Q. Prettyman.

*Permission of the instructor.*

*3 points. Tu Th 2:40-3:55. (II)*

## **English-Women's Studies EWS BC 3145x. The Female Protagonist: Readings in the French and English Novel.**

The heroine and the representations of a female destiny in selected works by women writers; the texts will be studied in conjunction with contemporary feminist criticism. Lafayette, Wollstonecraft, Austen, Sand, Brontë, Eliot, Colette, Wittig.—N. Miller.

*3 points. Th 4:10-6:00. (III)*

## **ENG BC 3153y. Anglo-Saxon.**

Introduction to the language, with selected readings in prose and verse.

*Not offered in 1984-85.*

*3 points. (II)*

## **ENG BC 3155y. Chaucer.**

*The Canterbury Tales.*—C. Baswell.

*3 points. Tu Th 10:35-11:50. (II)*



## ENG BC 3158y. Medieval Literature.

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.—B. Ulanov.

*Offered in alternate years. Offered in 1985-86.*  
3 points.

## ENG BC 3159x-ENG BC 3160y. The English Colloquium.

Major writers and literary works of the Renaissance and the Enlightenment, examined in terms of leading ideas in those periods.

*Required of majors in the sophomore or junior year.*  
4 points.

### I. Imitation and Creation.

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.—J. Morse.  
*M 2:10-4:00.*

### II. Reason and Imagination.

Relationship of the subjective and objective vision; the impact of "new philosophy," exploration, and discovery; the shift from authority to perception and from public to private forms.—C. Schenck.  
*Tu 2:10-4:00.*

### III. Skepticism and Affirmation.

Humanism, reformation, and revolution; the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation.—E. Dalton, M. Jaanus.  
*W 2:10-4:00.*

### IV. Ideas of Order and Disorder.

Form and structure achieved or defeated in the work of art and in the world; the rise of the man of letters and vernacular literature; the drama of self-transformation.—B. Ulanov.  
*Th 4:10-6:00.*

## ENG BC 3163x, ENG BC 3164y. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.

3 points. *M W F 11:00.* (II)

## ENG BC 3165x. The Elizabethan Renaissance.

Literature in the age of Elizabeth I. Sidney, Spenser, Shakespeare, and their contemporaries. Songs, the love sonnet, prose fiction, satire.

Some attention to music and visual imagery.—A. Prescott.  
3 points. *M W 1:10-2:25.* (II)

## ENG BC 3166y. Seventeenth-Century Prose and Poetry.

Classical traditions, Christian beliefs, the new science and the literary imagination: thought and style in English literature from Bacon, Donne, and Jonson to Marvell, Bunyan, and Dryden.—R. Kivette.

*Offered in 1985-86.*  
3 points. (II)

## ENG BC 3167x. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose.—R. Kivette.

3 points. *Tu Th 10:35-11:50.* (II)

## ENG BC 3169y. English Drama: 900-1642.

English drama from its beginnings to the closing of the theatres. Medieval plays, the Tudor interlude, and major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster.—R. Patterson.

3 points. *Tu Th 4:10-5:25.* (II)

## ENG BC 3171x. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Sterne, Lewis, Austen, Brontë, Dickens, George Eliot, Carroll, and Hardy.—M. Jaanus.

3 points. *M W 11:00-12:15.* (II)

## ENG BC 3173x. Eighteenth Century Literature, 1660-1740.

Tradition and innovation in satire, drama, the periodical essay, and the novel; readings in Behn, Congreve, Pope, Swift, Defoe, Richardson, Fielding, and Gay.—J. Thaddeus.

3 points. *M W F 10:00.* (II)

## ENG BC 3174y. Eighteenth Century Literature, 1740-1800.

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Sheridan, Fielding, Sterne, Wollstonecraft, Burns, and Blake.—J. Thaddeus.

*Offered in alternate years. Offered in 1985-86.*  
3 points. (II)

## ENG BC 3176y. English Romanticism.

The thought and style of Wordsworth, Coleridge, Byron, Keats, and Shelley.—M. Jaanus.

3 points. *M W 11:00-12:15.* (II)

## ENG BC 3177y. The Victorian Age in Literature.

Prose and verse on problems of society and religion. Carlyle, Mill, Ruskin, Arnold, Newman, Huxley, Tennyson, Browning.—D. Robertson.

3 points. *Tu Th 10:35-11:50.* (II)

# English

## ENG BC 3178x. Victorian Poetry and Criticism.

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne; some paintings by the Pre-Raphaelites and others; critical opinions of Ruskin, Arnold, Pater, and Wilde.—D. Robertson.

3 points. Tu Th 10:35-11:50. (II)

## ENG BC 3179x. American Literature before 1900.

The formation and development of the American literary tradition with an emphasis on the major writers of the nineteenth century. Readings include: Franklin, Irving, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Twain, Dickinson, James and Chopin.—A. Bendixen.

3 points. M W F 1:10. (II)

## ENG BC 3180y. American Literature since 1890.

Modern American fiction, poetry, and drama. Works by Crane, Wharton, Cather, Anderson, Hemingway, Fitzgerald, Faulkner, Bellow, Frost, Eliot, Stevens, O'Neill, and others.—A. Bendixen.

3 points. M W F 1:10. (II)

## ENG BC 3181x. American Fiction.

American fiction of the nineteenth and twentieth centuries. Works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, and others.—A. Bendixen.

Permission of the instructor required for freshmen.  
3 points. W 2:10-4:00. (II)

## ENG BC 3183x. Modern Literature and the Allied Arts.

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, and the motion picture.—B. Ulanov.

Offered in alternate years. Offered in 1985-86.  
3 points.

## ENG BC 3185x. Modern British and American Poetry.

The thought and style of Hopkins, Yeats, Frost, Robinson, Pound, Eliot, Stevens, and more recent writers; the literary movements with which they are associated.—B. Ulanov.

3 points. Tu Th 2:40-3:55. (II)

## ENG BC 3186y. Modern Drama.

The modern theatre and its makers from Ibsen to the present; its Renaissance and eighteenth-century antecedents.—B. Ulanov.

3 points. Tu Th 2:40-3:55.

## ENG BC 3187y. American Writers and Their Foreign Counterparts.

Selected nineteenth- and twentieth-century

American, European, and English works, Flaubert, James, Proust, Gide, Faulkner, and others.—E. Dalton.

Offered in alternate years. Offered in 1985-86.  
3 points.

## ENG BC 3188y. The Modern Novel.

Works by Hardy, James, Conrad, Lawrence, Joyce, and others.—J. Morse.

3 points. M W F 12:10. (II)

## ENG BC 3189y. Post-Modern Literature.

Writers since 1945, primarily English and American, and concepts of post-modern culture. Readings include Beckett, Borges, Pinter, Nabokov, Barthelme, and others.—E. Dalton.

Permission of the instructor required for freshmen.  
3 points. Tu Th 1:10-2:25.

## ENG BC 3190x. The English Language: History and Use.

Introduction to the history of words, pronunciation, and structure in light of literary tradition and linguistic science.—R. Norman.

Not offered in 1984-85.

3 points.

## ENG BC 3192y. Seminar in the Teaching of English.

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading. Students will observe classes in a local high school one morning a week.—E. Caughran.

For students who plan to teach or to produce teaching materials. Enrollment limited.

4 points. Tu 4:10-6:00.

## ENG BC 3193x, ENG BC 3193y. Critical Writing.

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. All English majors are required to take course BC 3193 before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take BC 3193 in the Autumn Term.—Staff.

Registration in each section is limited. Students must file departmental forms with the department assistant (417 Barnard Hall).

4 points.

x: Section I M 2:10-4:00.

Section II Tu 2:10-4:00.

Section III W 2:10-4:00.

Section IV W 4:10-6:00.

Section V Th 2:10-4:00.

y: Section I M 2:10-4:00.

Section II Tu 2:10-4:00.

Section III W 2:10-4:00.

Section IV W 4:10-6:00.

Section V Th 2:10-4:00.



## **ENG BC 3997x, ENG BC 3998y. Senior Seminars: Studies in Literature.**

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings. Class discussions, oral reports, and at least two research papers, one in BC 3997 and one in BC 3998. Students must have the written permission of the instructor.

*Enrollment limited to seniors. 4 points.*

### **ENG BC 3997x. I. Studies in Tragedy: The Death of the Hero.**

Greek, Elizabethan, classical French, and modern works, read in conjunction with important theories of tragedy; Aristotle, Nietzsche, Frazer, Freud, and Artaud.—E. Dalton.  
*M 12:00-1:50.*

### **II. Film and Word.**

The exchange of influences. The increasing dependence of film upon the literary imagination. The development of cinematic styles in novel, drama, and poetry. The silent and the speaking image in word and picture.—B. Ulanov.  
*Tu 12:00-1:50.*

### **III. Comedy and Romance.**

Form and theme in Renaissance comedy, especially as represented in the plays of Shakespeare and Jonson.—R. Patterson.  
*Tu 4:10-6:00.*

### **IV. Poets on Poetry**

The nature and uses of poetry. What poets from the sixteenth to the twentieth century have had to say about the art they practice. Sidney, Shakespeare, Milton, Wordsworth, Arnold, Yeats, and Eliot will be among the poets considered.—R. Kivette.  
*W 2:10-4:00.*

### **VI. Ancients and Moderns: The Pastoral Mode.**

An investigation of pastoral forms and attitudes, with special emphasis on the survival of the mode in modern works. Readings to include Virgil, Spenser, Milton, Blake, Whitman, Hart Crane, and a range of modern works.—C. Schenck.  
*Th 12:00-1:50.*

### **VII. Literary Theory.**

The literary work of art in the critical theory and discourse of various interpreters—aesthetic, phenomenologist, formalist, structuralist, feminist, semiotic.—M. Jaanus.  
*Tu 2:10-4:00.*

## **VIII. Text and Context: Shakespeare's *Tempest*.**

A study of one major text in its cultural and literary context. Sources and analogues in Rabelais and Montaigne; allegorical tempests; magic; the New World; the masque; poems on the play by Browning and Auden.—A. Prescott.

*W 3:10-5:00.*

*(II)*

## **ENG BC 3998y. I. The Middle Ages.**

—C. Baswell.

*Tu 2:10-4:00.*

## **II. The Renaissance.**

—R. Kivette

*W 2:10-4:00.*

## **III. The Eighteenth Century.**

—J. Thaddeus.

*M 2:10-4:00.*

## **IV. Early Nineteenth Century.**

—W. Sharpe.

*Tu 4:10-6:00.*

## **V. Victorian to Modern.**

—D. Robertson.

*W 4:10-6:00.*

## **VI. Modern.**

—J. Morse.

*Th 2:10-4:00.*

## **VII. American Literature.**

—A. Bendixen.

*W 2:10-4:00.*

## **ENG BC 3999x, ENG BC 3999y. Independent Study.**

For students who substitute an independent project in writing, speech or theatre for one of the Senior Seminars (BC 3997, BC 3998).

*4 points.*

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# Environmental Science

Office: 334 Milbank

Telephone: 280-5120

## **Adjunct Assistant Professors**

Richard Bopp (Chairman), Carole Swick

## **Lecturer**

Eric Katz

## **Instructor**

Steven Carson

## **Assistant**

Bruce Deck

Other officers of the University offering courses listed under Environmental Science:

## **Professors**

Robert A. Lewis, Kempton E. Webb

## **Adjunct Professor**

L. Zobler

## **Assistant Professors**

Sarah McLafferty, Garry F. Rogers, Neil Smith

## **Lecturers**

S.R. Baker, Miklos Pinther, Helene Wilson

Environmental Science studies the energy and material levels and pathways of natural earth systems in order to assess the effect of exceedances of these levels caused by the inadvertent impacts of human technologic systems, such as the exposure to radioactive materials, release of toxic substances, carbon dioxide build-up, elimination of species, and despoliation of the landscape. It provides a rational scientific basis for the management of earth space and resources. Environmental Science combines the traditional sciences into a holistic view of natural systems, especially with regard to their connections to human designed systems. While dependent on the findings of the natural sciences to describe the separate pieces of environmental systems, it uncovers convergent relations that reflect coherences among the disciplines. The holism of environmental science is a thinking process that focuses on a unique dynamics of life on earth and presents this material as an organized body of knowledge.

The curriculum recognizes the need for broad and well-trained scientists to cope with the complexities of contemporary and anticipated disruptions of environmental systems. Majors must acquire a real world understanding of hybrid built and natural systems, as well as the content and methodology of science. They will study the theoretical and applied aspects of environmental science and will be exposed to a range of current and future problems.

## **REQUIREMENTS FOR THE MAJOR**

- I. Environmental Science BC 1001, BC 1002
- II. One of the following options:
  1. 2 courses from each of 3 of the following departments: Biology, Chemistry, Geology, Physics,  
or
  2. 5 course concentration in one of the following: Biology, Chemistry, Geology, Physics

# Environmental Science

III. Four courses to be selected from the following:

Environmental Science BC 2011	<i>Built Environmental Systems I, Organic Resources</i>
Environmental Science BC 2012	<i>Built Environmental Systems II, Inorganic Resources</i>
Environmental Science BC 2014	<i>Built Environmental Systems III, Physical Ecology of Human Habitats</i>
Environmental Science BC 3015	<i>Chemical Cycles in the Environment</i>
Environmental Science BC 3016	<i>Environmental Measurements</i>
Environmental Science BC 3019	<i>Resources and Wastes</i>
Environmental Science BC 3035	<i>Environmental Hazards and Disasters</i>
Environmental Science BC 3037	<i>Environmental Monitoring</i>
Environmental Science BC 3038	<i>Environmental Planning and Site Development</i>
Geography W 4111	<i>Pedology and Soil Resources</i>
Geography W 4112	<i>Hydrology and Water Resources</i>

Graduating seniors are required to submit a report on an environmental research project by taking Environmental Science BC 3999, or as an extension of another course.

Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

## REQUIREMENTS FOR THE MINOR

Five courses are required:

Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

## COURSES OF INSTRUCTION

### ENV BC 1001x, ENV BC 1002y.

#### Environmental Science.

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban life-styles on planetary and regional equilibria. Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. Spring Term: ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future.—S. Carson.

*Enrollment limited to 80 students. Permission of the instructor required. Laboratory required, including field work. Permission for laboratory assignment required.*

*4½ points.*

*Lecture M W 1:10-2:25.*

*Laboratory M 2:40-5:30, Tu 2:40-5:30,*

*W 2:40-5:30, Th 2:40-5:30.*

### ENV BC 2011x. Built Environmental Systems I, Organic Resources.

*Not offered in 1984-85.*

*3 points.*

### ENV BC 2012y. Built Environmental Systems II, Inorganic Resources.

*Not offered in 1984-85.*

*3 points.*

### ENV BC 2014y. Built Environmental Systems III, Human Habitats.

*Not offered in 1984-85.*

*3 points.*

### ENV BC 3015x. Chemical Cycles in the Environment.

A detailed study of the cycles of chemical species in the environment including carbon, nitrogen, phosphorus and sulfur compounds, major cations trace metals, and organic pollutants. Emphasis will be placed on man-induced perturbations of natural cycles.—R. Bopp.

*Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor.*

*3 points. Tu Th 10:35-11:50.*



# Environmental Science

## **ENV BC 3016y. Environmental Measurements.**

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods.

—R. Bopp.

*Chemistry BC 1601, BC 1602 or equivalent and permission of the instructor. Enrollment limited to 16 students.*

*3 points. Lecture Tu Th 12:00-12:50. Laboratory Tu or Th 3:10-5:00.*

## **ENV BC 3019x. Resources and Wastes.**

A scientific description and evaluation of the current status and future of our energy, mineral, and food resources including methods of treating wastes generated during resource production and use.—S. Carson.

*Prerequisite: One year college science and permission of the instructor.*

*3 points. Tu Th 9:10-10:25.*

## **ENV BC 3035y. Environmental Hazards and Disasters.**

Prediction and avoidance of catastrophic events that originate in natural systems and technologic systems; risk assessment, response strategies to minimize damage before, during and after events such as earthquakes, floods, nuclear breakdowns.—S. Carson.

*3 points. Tu Th 9:10-10:25.*

## **ENV BC 3037x. Environmental Monitoring.**

Design and use of surveillance methods to safeguard the quality of life and public health; air, water, soils, home and occupational safety, food and consumer goods, disposal of toxic substances and sanitary, industrial, and household wastes. Determination of background levels, setting of standards and enforcement procedures, visits to public and private agencies. —Instructor to be announced.

*Not offered in 1984-85.*

*3 points.*

## **ENV BC 3038y. Environmental Planning and Site Development.**

Introduction to planning practice and land development both in natural systems and in core cities and surrounding suburbs of metropolitan areas. Integration of scientific considerations with practical, legal and economic aspects of regional and site planning.—C. Swick.

*Limited enrollment; permission of instructor required.*

*3 points.*

*Tu 4:10-6:00, plus studio design projects.*

## **Environmental Science - Philosophy ESP BC 3025y. Ethics and the Environment.**

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law.—E. Katz.

*3 points. Tu Th 2:40-3:55.*

*(III)*

## **ENV BC 3999x, ENV BC 3999y. Problems and Projects in Environmental Science.**

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty.—Staff.

*Permission of chairman required.*

*Variable points. Hours to be arranged.*

## **Geography GEO W 4111x. Pedology and Soil Resources.**

Introduction to biogeochemistry of soils and their genesis, morphology, and classification; ecology, management, and conservation of soils in different agricultural systems; evaluation, mapping, and planning of land sites for agricultural, open space, and urban uses.—L. Zabler.

*Prerequisite: Environmental Science 1, 2, equivalent, or permission of the instructor.*

*Two one-day field trips and reports required.*

*3 points.*

*Lecture: Tu Th 3:10-4:00.*

*Laboratory: Tu or Th 4:10-6:00.*

## **Geography GEO W 4112x. Hydrology and Water Resources.**

Hydrologic cycle analysis of surface and ground water flows and their application to water management in urban and rural areas; resource planning for potable supplies, waste disposal, and other uses; case studies of water quality and flood control problems.—L. Zabler.

*Prerequisite: Environmental Science 1, 2 or equivalent or permission of the instructor. Offered in alternate years. Not offered in 1984-85. Two one-day field trips and reports required.*

*3 points.*

# Environmental Science

The following courses offered by the Geography Department of Columbia University are of special interest to students of Environmental Science.

## **GEO W 1019x. Spatial Organization of Society.**

An introduction to human geography with an emphasis on spatial patterns of human activity and the social and economic processes underlying them. Topics include the uneven spatial development of the world economy, patterns of underdevelopment, contemporary urban processes such as gentrification and patterns of regional development. An introduction also, to various philosophical concepts of geographical space.—N. Smith.

3 points. Tu Th 1:10-2:25.

## **GEO W 3020x. Economic Geography.**

Introduction to the economic factors in locational decisions and their relationships to distribution of world resources and industries. Directed to students who desire a survey of the systematic relationships between economic and spatial distributions, with emphasis on pertinent economic and geographic theory.—S. McLafferty.

3 points. M W 1:10-2:25.

(V)

## **GEO W 3071x-GEO W 3072y. Quantitative Techniques in Geography.**

Theory and techniques of measuring geographic distributions; descriptive and analytic methods (regression, factor analysis) useful in dealing with areal associations and interactions; "packaged" programs for displaying and analyzing spatial patterns; additional selected programs (point pattern analyses, frequency distributions, and taxonomic procedures).—N. Smith, S. McLafferty.

3 points.

x: Tu Th 6:10-7:25.

y: Tu Th 6:10-7:25.

## **GEO W 4018y. Cartography.**

Use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis; survey of photogrammetry and remote sensing and of modern map production methods; experience in cartographic drafting, compilation, design and evaluation; use of aerial photographs in mapping and as map supplements.—M. Pinther.

\$20.00 fee. Studio course. Enrollment limited to 20 students. Permission of the instructor required.

3 points. Tu Th 6:10-8:00.

## **GEO W 4103y. Geography of Energy Crisis.**

Recent patterns of energy production and consumption and origins of so-called energy crisis. A political economy approach. We shall consider the relationship between energy, geographical mobility and

economic development, the relationship between energy crisis and broader economic crisis, and the development of alternative resources. What geographical patterns can we expect from the present restructuring of the energy regimen?—N. Smith.

*Offered in alternate years. Not offered in 1984-85.*  
3 points.

## **GEO W 4039y. Medical Geography.**

Mechanisms of diseases and their modes of transmission; effects of disease on settlement patterns, agricultural development, and landscape modification with special reference to major maladies; the influence man has on disease through economic development and manipulation of environment; special implications of medical care in the United States, including effects of innovation and distribution of health services delivery.—S. Baker.

3 points.

W 6:10-8:00 and one hour tutorial.

(V)

## **GEO W 4050x. Population Geography.**

Concepts pertaining to population change: population policy, population growth, fertility mortality, migration, select population characteristics, and food and resource problems related to population growth; impact of population change on society.—R. Lewis.

3 points.

Tu 4:10-6:00 and one hour tutorial.

(V)

## **GEO W 4071y. Remote Sensing of the Environment.**

Introduction to interpretation of remote sensing images; interpretation of land systems; vegetation, land forms, and soils; interpretation of socioeconomic data; settlement patterns, land use, and agricultural systems.—H. Wilson.

*Enrollment limited to 25 students. Senior majors preferred. Laboratory of two hours per week required.*

3 points. M 10:00-11:50, W 10:00-12:00.

## **GEO W 4129x. Ecological Biogeography.**

How evolution, ecological dynamics, and environmental change create the biological landscape. Topics include North American biomes, historical biogeography, ecological dynamics, diversity and stability, and environmental deterioration. Laboratory exercises in acquisition and analysis of ecological data.—G. Rogers.

*Prerequisites: one year physical geography and a botany course or the instructor's permission.*

3 points. F 1:10-4:00.

## **GEO W 4900x. World Resources and Industries.**

World, national, and regional resources viewed as bases of an international urban-industrial eco-



# Environmental Science

system, distribution of agricultural, mineral, and energy supplies and related processing industries, and their impacts on limits to growth; institutional and technological forces in resource-using systems that affect production and trade patterns through government intervention and operations of multinational corporations.—K. Webb, L. Zobler, N. Smith.

*3 points.*

*W 2:10-4:00 and one hour tutorial.*

*(V)*

## **GEO W 4910y. The Geography of Hunger and Food Supply.**

Worldwide and local perspectives on causes and consequences of hunger; regional and cross-cultural aspects of food consumption patterns, production parameters, distribution, marketing, and official intervention; methodologies for developing areas, including Brazilian experience and other case studies.—K. Webb.

*3 points. W 2:10-4:00.*

*(V)*



# Experimental Studies Program

*Office: 316 Milbank Hall*

*Telephone: 280-5481, 5417*

The Experimental Studies Program is supervised by the Experimental Studies Committee:

**Professor of Dance**

Jeanette Roosevelt

**Professor of Economics**

Deborah Milenkovitch

**Professor of English**

Barry Ulanov

**Lecturer in Experimental Studies**

Joan Dulchin (Director)

**Professor of Political Science**

Dennis Dalton

**Associate Professor of Psychology**

Peter Balsam

**Professor of Russian**

Richard Gustafson

## INTERSHIPS AND INDEPENDENT PROJECTS

The Experimental Studies Program provides students with the opportunity to expand and enrich their education through independent projects, internships, and interdisciplinary studies.

The basic component of the Program, Experimental Studies BC 3001, BC 3002, takes students out of the classroom to undertake independent work of a kind not provided for by regular departmental offerings—and then brings them back to the classroom to analyze and reflect on these activities and experiences. The students in Experimental Studies BC 3001, BC 3002, fall into two broad categories: those doing internships in New York City, exploring career and other interests, and those doing independent projects. Occasionally, students focus primarily on mastering special skills. In their projects, students can explore practical or interdisciplinary aspects of their major field of academic interest, or can extend their interests and abilities into new areas.

Recent projects include: medical illustration, writing case studies for a public health dentistry course, translating Spanish documents for the International League for Human Rights, doing research on the Cold War for a documentary film, exploring the connections between poetry and photography, working with developmentally delayed children, doing a study of the New York video community, working with a literary agent evaluating manuscripts, publishing a magazine on Venezuela for the United Nations newspaper, doing cancer research, and working on writing and singing projects. Students have recently held internships at the Vivian Beaumont Theatre, the Chinatown Health Clinic, Mount Sinai Hospital, WNYC Radio, New York Magazine, the Urban Homesteading Assistance Board, Family Planning Advocates, the International Indian Treaty Research Council, the Multiple Sclerosis Society, the Whitney Museum of Art, Channel 13, Kidder Peabody and Company, and the Manhattan District Attorney's Office.



# Experimental Studies Program

In addition to the supervision in the setting of their internships and projects, students choose Barnard faculty members (or, where appropriate, faculty members from other branches of Columbia University) to guide and supervise their work. Meetings with faculty sponsors usually occur every two weeks, and in addition to reading, writing or research required by the project, students are usually asked to keep journals in which they reflect on their activities and experiences. Beyond this individual supervision which focuses on the content of the project, students meet weekly in seminars with the Director of the Program. In these seminars students discuss their projects with each other and analyze the social and cultural contexts in which their internships or projects are carried out. They compare experiences and use these as bases for analyzing how organizations, institutions and professions work. Ethical, political, and social issues are discussed, including issues relating to women and work. Evaluations for this pass/fail course are determined by the Director on the bases of the sponsors' evaluations and the student's contribution to the seminar.

Some of the issues raised in the seminars are dealt with in the interdisciplinary course, Experimental Studies BC 3003, *Contemporary Issues in Feminist Thought*. This course functions in the same fashion as other College courses.

Students may neither major nor minor in Experimental Studies.

## REGISTRATION PROCEDURES: INTERNSHIPS AND INDEPENDENT PROJECTS

Before the beginning of the semester each student who intends to register for Experimental Studies BC 3001, BC 3002 should follow these procedures:

(1) Develop a proposal for a project or an internship. A semester internship can be obtained through the Office of Career Services, through the student's own contacts, or by consulting the list of recently completed internships available outside 316 Milbank Hall. A January or summer internship can be continued into the Spring or Fall, or can serve as the starting point for a project in BC 3001, BC 3002.

(2) Consult the Director of the Experimental Studies Program, who advises on the feasibility and appropriateness of the project plan, suggests possible faculty sponsors, and discusses the project form.

(3) Arrange for a faculty sponsor.

(4) Return the project form, signed by the faculty sponsor, for approval.

(5) Sign up for one section of the seminar.

## COURSES OF INSTRUCTION

### EXS BC 3001x, EXS BC 3002y. Experimental Studies Seminar.

For students doing independent or interdisciplinary projects or internships. In class discussion, students examine the social and cultural contexts of their projects, as well as the ethical, political, and social issues that arise from them.—J. Dulchin.

*Limited to students with approved project forms. Mandatory pass/fail (this will be noted on transcript). Enrollment limited to 20 students per section. This course may be taken for one or two semesters, in either order, and not necessarily consecutively.*

3 points.

x: Section I M 11:00-12:30.

Section II W 2:30-4:00.

y: Section I M 11:00-12:30.

Section II M 2:30-4:00.

Section III W 2:30-4:00.

### EXS BC 3003x. Contemporary Issues in Feminist Thought.

Examination of such topics as work, health, marriage, and motherhood through the writings of Millett, Chodorow, Ortner, Rosaldo, and others.—J. Dulchin.

*Enrollment limited to 25 students.*

*4 points. Not offered in 1984-85.*

# Foreign Area Studies

*Office: 321A Milbank Hall*

*Telephone: 280-5417*

This program is supervised by the Committee on Foreign Area Studies:

**Professor of Anthropology**

Abraham Rosman

**Professor of Oriental Studies**

John Meskill (Chairman)

**Professors of English**

David A. Robertson, Jr.,<sup>1</sup> Barry Ulanov

**Professor of French**

Serge Gavronsky

**Assistant Professor of History**

William McNeil

**Professor of Italian**

Maristella de Panizza Lorch

**Professor of Oriental Studies**

Barbara Stoler Miller

**Professor of Political Science**

Peter H. Juviler

**Associate Professor of German**

Gertrud M. Sakrawa

<sup>1</sup>Emeritus and Special Lecturer

The purpose of Foreign Area Studies is to provide introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

## REQUIREMENTS FOR THE MAJOR

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

**Asia (Adviser: Professor Meskill). See Oriental Studies, page 197.**



# Foreign Area Studies

## British Civilization (Adviser: Professor Ulanov)

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history, (b) four additional courses, of which two must be in English literature, and (c) two courses in senior seminar in History or English.

## European Studies (Adviser: Professor Meskill)

A program for students with a strong base in European languages and a focused interest in contemporary European affairs. Students interested in one Western European country should also consult the subsection on Western Europe.

Requirements:

European Studies BC 3352      *European Nation-State Building:  
France, Germany, and Italy.*

5 courses on one country or region, in more than one discipline. See the list of courses under Western Europe.

4 courses on general European subjects, to be selected after consultation with the program adviser.

2 courses of senior seminar under the direction of the program adviser.

Associated requirement (not counted towards the average in the major): competence (the equivalent of four Barnard semesters) in each of two European languages, usually French and German.

## COURSES OF INSTRUCTION

European Studies BC 3352x. *European Nation-State Building: France, Germany, and Italy.*

—W. McNeil.

4 points. Th 2:10-4:00.

(IV)

## Italian Studies (Advisers: Professors Colombo and Lorch)

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. It offers a specialization to students who have an interest in one social science *and* in Italy at the same time.

Specific programs are planned with the adviser on the basis of a major's particular interests and needs. In all a major must take at least 14 courses with concentration in one particular discipline:

Italian V 1301-V1302

*Comprehensive Elementary and Intermediate Italian*

or show sufficient proficiency;

Italian V 3333-V 3334

*Introduction to Italian Literature or one year of other Italian literature courses in Italian or English;*

3 History courses.

Italian Studies BC 3003

*Italian Cultural History, 1914-1944*

Italian Studies BC 3004

*Italian Cultural History, 1944 to the present*

History W 4215

*Italy since 1815*

# Foreign Area Studies

Two courses in Italian culture from the following list:

Italian Studies  
BC 3101, BC 3102  
Italian B 3440y  
Italian V 3465x-3466y  
Italian V 3642

*Aspects of Italian Contemporary Culture*

*Feminism in Italian Literature*  
*Italian Civilization and Culture*  
*Studies in Contemporary Italian Arts:*  
*Italian Film*

Italian Studies BC 3191, BC 3192, *Senior Seminar*, in which the student will prepare her senior essay; and a minimum of three additional courses in one social science of the student's choice.

Double majors whose language requirement is met in Italian are welcome.

## COURSES OF INSTRUCTION

### **ITS BC 3101x, ITS BC 3102y. Aspects of Italian Contemporary Culture.**

A study of change, development, and conflicts in Italian life today and their relation to the European scene. Not offered in 1984-85.

*A knowledge of Italian is not required.*  
*4 points.*

### **ITS BC 3003x. Italian Cultural History 1914-1944: From the Origins to the End of Fascism.**

Seminar. The economic and social conditions of Italy before World War I. Pre-fascist Italian society: the role of the Savoy monarchy; the wide gap between cities and country; in mass movements: the socialists and the catholics. The role of poets and writers as political agitators: from Marinetti to D'Annunzio. Mussolini and the emergence of the middle class. The Fascist "revolution," its establishment, its triumph in the Ethiopian war, its decline with the second world war.—F. Colombo.  
*3 points. Not offered in 1984-85.*

### **ITS BC 3004x. Italian Cultural History 1944 to Present: The Establishment and Development of Democracy.**

Seminar. The rebirth of an industrial country: character of Italian industrialization. East-West polarization and the role of Italy. The Italian "miracle" of the sixties. Social trouble and terrorism in the seventies. The new mass movements of the eighties: women, youth, minorities. Italy and

the European cultural, economic and political community.—F. Colombo.

*3 points. Th 4:10-6:00. Third hour to be arranged.*

### **Political Science POS G4415y. Social and Political Institutions in Italy Today.**

Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.  
*3 points. Th 4:10-6:00. Third hour to be arranged.*

(V)

### **Italian ITA V 3440y. Feminism in Italian Literature and Culture.**

The development of the Feminist Movement in Italy; its origins to the present. Readings will include works by Aleramo, De Cespedes, Maraini, and Vigano; historical and sociological background material.—M. Repetto Alaia.

*Not offered in 1984-85.*

*3 points.*

### **History HIS W 4215x. Italy since 1815.**

—E. Malefakis.

*Not offered in 1984-85.*

*3 points.*

### **ITS BC 3191x, ITS BC 3192y. Senior Seminar.**

Guidance in research and writing of a critical essay by members of the staff of the program. —Staff.  
*Required for senior majors.*

*4 points. Hours to be arranged.*

## **Latin America (Adviser: To be announced)**

A major consists of the five starred courses and five additional courses, two of which should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V 3010  
Anthropology V 3029  
Anthropology W 3015  
Anthropology W 4111  
Art History W 4080

*Native South America*  
*The Archaeology of the New World*  
*Contemporary Latin America*  
*Latin American Communities*  
*Pre-Columbian Art*



# Foreign Area Studies

Economics BC 3029  
Economics W 4321  
Geography W 4201  
History W 4779-W 4780  
Political Science G 4461  
Spanish BC 3011

\* Spanish BC 3015, BC 3016  
\* Spanish BC 3031, BC 3032  
\* Spanish BC 3034

*The Economics of Underdeveloped Areas*  
*The Latin American Civilization*  
*Latin America*  
*History of Latin American Civilization*  
*Latin American Political Behavior*  
*Significant Themes of Contemporary*  
*Latin American and Spanish Literature*  
*Spanish-American Culture*  
*Literature of Latin America*  
*Latin American Seminar*

## Russia (Adviser: Professor Juviler)

The major consists of

4 years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar; and

8 courses distributed in the following subjects:

- 2 courses in Russian or Soviet literature (in translation or Russian);
- 2 courses in Russian history;
- 1 course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);
- 1 course in Soviet politics; and
- 2 semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

One of the non-language courses is to be a colloquium. Specific programs are planned with the adviser on the basis of a major's particular interests and needs.

Art History G 4331  
Economics W 4430  
Economics W 4524

Geography W 4401

Geography W 4940  
History W 3310  
History W 3311  
History W 3988  
History W 3995  
History W 4310  
History W 4311  
History W 4312

Political Science BC 3220

Political Science BC 3221

Political Science W 3522  
Political Science G 4487  
Russian V 1224  
Russian V 3333, V 3334  
Russian V 3461  
Russian V 3462  
Russian V 3463

*Russian Art*  
*Marxist Economic Theory*  
*Economic Organization in Eastern Europe*  
*Economic and Population Geography of the U.S.S.R.*  
*Resources of the U.S.S.R.*  
*Survey of Russian History, 1613-1855*  
*History of Russia: 1855-1921*  
*Origins of Marxism*  
*Russian Society and Politics, 1885-1917*  
*History of Russia: 1649-1861*  
*History of Russia: 1861-1917*  
*History of Russia, Poland, and the Ukraine to the Time of Peter the Great*  
*Colloquium on Communism and Revolutionary Change*  
*Colloquium on Politics and Social Change in the U.S.S.R.*  
*Communist Political Systems*  
*The Dynamics of Soviet Politics*  
*Introduction to Russian Culture*  
*Introduction to Russian Literature*  
*Pushkin*  
*Gogol*  
*Tolstoy*

# Foreign Area Studies

Russian V 3464  
Russian V 3465

Russian V 3467  
Sociology W 4010

*Dostoevsky*  
*Russian Poetry in the Nineteenth and Twentieth Centuries*  
*Twentieth-Century Prose Writers*  
*State Socialist Societies of the U.S.S.R. and Eastern Europe*

## Western Europe (Adviser: Professor Sakrawa)

For the program on England, see British Civilization above. For other Western European countries, such as the French, German, and Spanish-speaking countries, a major consists of ten courses, including

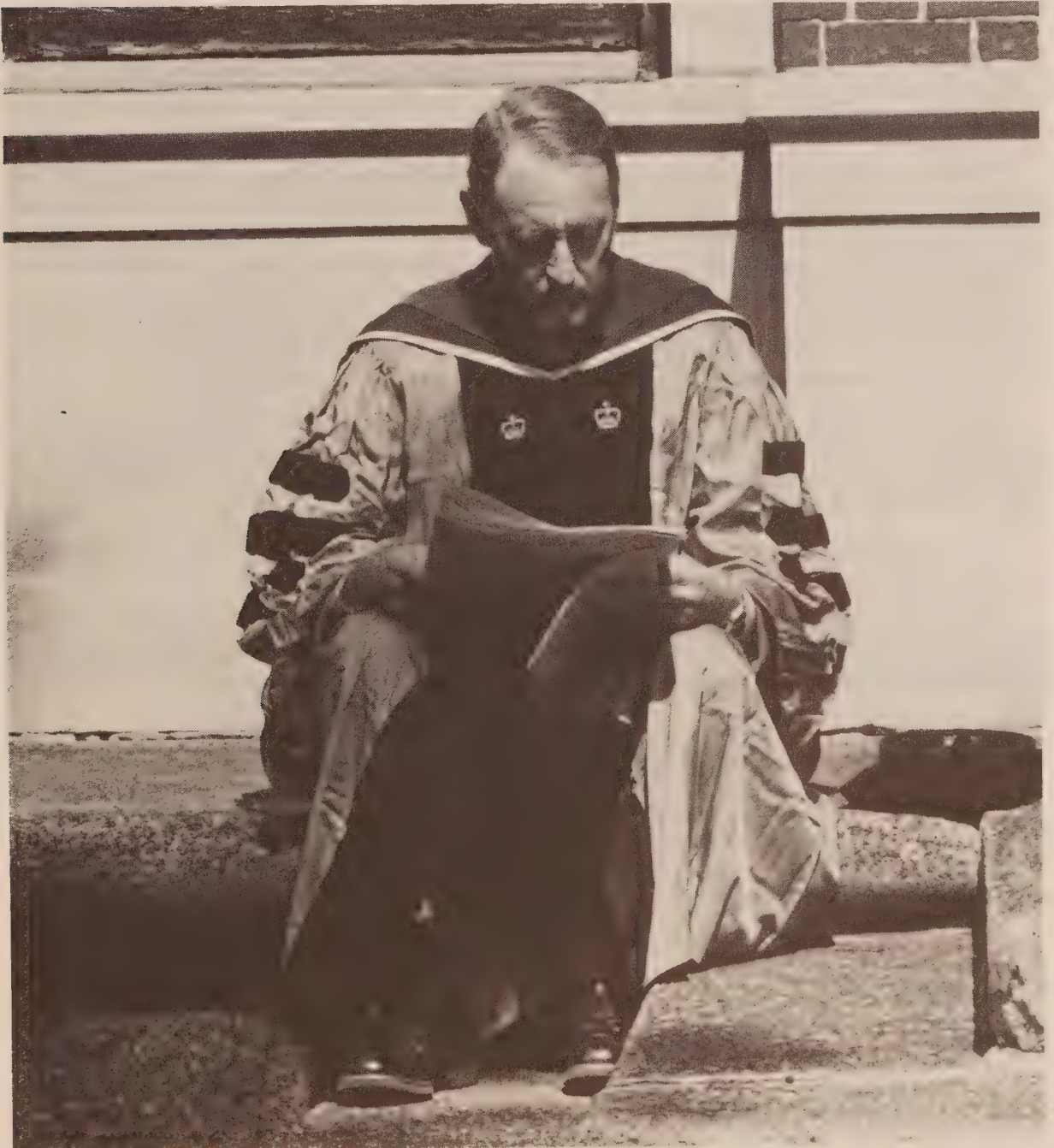
- 2 courses in basic European history or 2 other history courses approved by the adviser;
- 2 courses in the literature of one country, in the original language;
- 4 more courses on the country, chosen with the help of the adviser; and
- 2 courses of a senior seminar, usually in History.

Europe	Anthropology V 3007	<i>Peoples of Europe</i>
	Anthropology V 3038	<i>Ethnic Relations in Changing Societies</i>
	Art History V 3500, V 3501	<i>European Painting Since the Renaissance</i>
	Art History BC 3678, BC 3679	<i>Art from 1875-1975</i>
	Economics BC 3031	<i>The Development of Economic Thought 1770-1970</i>
	History BC 1011	<i>Main Currents of the Modern European World: Renaissance to the French Revolution</i>
	History BC 3021	<i>European Diplomacy: 1815-1914</i>
	History BC 3437	<i>The European Enlightenment</i>
	History W 3204	<i>The Age of Revolutions</i>
	History W 3216	<i>European Intellectual History, 1790-1918</i>
France	History W 4270	<i>European International Relations, 1914 to the Present</i>
	History BC 3791-BC 3792	<i>Senior Research Seminar in European History</i>
	Political Science BC 3007	<i>Modern Political Movements</i>
	Political Science BC 3013, BC 3014	<i>Political Theory</i>
	Political Science W 3512	<i>Democratic Politics in Western Europe</i>
	Political Science W 3801	<i>Western Europe Today</i>
	Political Science G 4401	<i>Comparative Politics, Western Europe</i>
	Art History BC 3669	<i>French Architecture 1600-1800</i>
	French BC 3021, BC 3022	<i>Masterpieces of Literature from the Middle Ages to the Twentieth Century</i>
	History W 3922	<i>The French Revolution</i>
Germany	German BC 3011	<i>Introduction to German Literature and Civilization</i>
	German BC 3014	<i>German Literature at the Turn of the Twentieth Century</i>
	History W 4212	<i>German History 1862 to the Present</i>
	History W 4319	<i>Germany and East Central Europe in Modern Times, 1914-1956</i>
	History W 4427-W 4428	<i>History of the Hapsburg Monarchy: 1683-1919</i>



# Foreign Area Studies

Italy	History BC 3418	<i>Italy in the Twentieth Century</i>
	History BC 3033	<i>History of Italy</i>
	History-Italian V 3197	<i>Dante's World</i>
	History W 3225	<i>The Italian Renaissance</i>
	Italian V 3469	<i>Renaissance Humanism</i>
	Italian V 3221	<i>Machiavelli, Castiglione, Ariosto, and Tasso</i>
	Italian V 3449-V 3450	<i>Modern Italian Literature</i>
	Medieval and Renaissance Studies BC 3081	<i>Italian Renaissance Courts and the Theater</i>
Spain	Spanish BC 3013	<i>The Culture of Spain</i>
	Spanish BC 3018	<i>Literature of the Golden Age</i>
	Spanish BC 3023	<i>Nineteenth-Century Literature in Spain</i>
	Spanish BC 3025, BC 3026	<i>Contemporary Spanish Literature, Part I and II</i>



# French

Office: 314 Milbank Hall

Telephone: 280-5417

## Professors

Serge Gavronsky (Chairman), Renée Geen, Tatiana Greene

## Visiting Professor

Mazimo Colesanti

## Adjunct Assistant Professor

Micheline Levowitz<sup>2</sup>

## Assistant Professors

Anne Boyman, Elyane Dezon-Jones<sup>1</sup>

## Instructors

Marlène Barsoum, Susan D. Cohen, Konrad A. Czinski, Claude Holland, Marie-Thérèse Killiam, David A. Powell

<sup>1</sup>Absent on leave, Autumn Term.

<sup>2</sup>Absent on leave, Spring Term.

Courses in the French Department have a twofold objective: to perfect fluency in the written and the spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination, CEEB examinations) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chairman.

Students who have satisfied the language requirement may take literature courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French, but with lectures, discussions, and papers in English (BC 3047, BC 3048); and advanced language course BC 1306.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad, page 38.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank). This is also where the Société Française de Barnard et de Columbia meets and plans its many activities, among them the annual production of a French play.

## REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Students will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte* (unless enrolled in the Senior Project, French BC 3059, BC 3060).

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

In consultation with the adviser of her choice, the student majoring in French may select either of the following options:



## Language and Literature

Ten courses are required for the major:

French BC 3021 and BC 3022      *Masterpieces of Literature from the Middle Ages to the Twentieth Century*

or

French BC 3023 and BC 3024      *The Culture and Institutions of France*

2 of the following language courses:

French BC 3012      *History of the French Language*

French BC 3013      *Advanced Composition and Grammar*

French BC 3014      *Advanced Translation*

French BC 3015      *Advanced Translation into French*

French BC 3016      *Advanced Oral French*

French BC 3017      *The Translation of Dialogue*

5 literature courses chosen from BC 3031-BC 3046; and

One-term seminar numbered BC 3052.

Students with a grade of A minus may choose to write a Senior Essay (French BC 3059, BC 3060 A).

## Translation and Literature

The major requires 10 courses:

French BC 3021 and BC 3022, or BC 3023 and BC 3024;

French BC 3014 and two other advanced language courses chosen from courses BC 3013, BC 3015, or BC 3017;

3 one-term literature courses numbered BC 3031-BC 3046; and

one-term seminar numbered BC 3059 together with independent work in BC 3060B.

The student is expected to declare her option by the end of the junior year. Either program may include additional courses in French literature and language, or in other subjects which vary with the interest of the student.

## REQUIREMENTS FOR THE MINOR

Five courses are required for a minor:

2 advanced language courses (French BC 3012-BC 3017); and

3 advanced literature courses (French BC 3031-BC 3046).

A student who elects French as part of a combined, double, or interdisciplinary major will establish her individualized program with the departments concerned.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

All courses except BC 3014 and BC 3017 are conducted in French.

### FRE BC 1001x-FRE BC 1002y. Elementary Full-Year Course.

Grammar, reading, composition.—Staff. Course Chairman: J. Brami.

*Enrollment limited to 20 students per section. Work in the language laboratory is required.*

*4 points. No credit is given for BC 1001 unless BC*

*1002 has been satisfactorily completed.*

*Section I M Tu W Th F 9:00. To be announced.*

*Section II M Tu W Th F 9:00. C. Holland.*

*Section III M Tu W Th F 10:00. M-T. Killiam.*

*Section IV M Tu W Th F 10:00. To be announced.*

*Section V M Tu W Th F 11:00. S. Cohen.*

# French

## **FRE BC 1102x. Review of Elementary French.**

Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation.—Staff.

Course Chairman: M. Barsoum.

*Primarily for students who need further instruction to qualify for the intermediate course. Enrollment limited to 20 students per section. Work in the language laboratory is required.*

3 points.

Section I M W F 9:00. *To be announced.*

Section II M W F 10:00. *To be announced.*

Section III M W F 11:00. M. Barsoum.

Section IV Tu Th 1:10-2:25. M-T. Killiam.

## **FRE BC 1203x. Intermediate Course.**

Grammar and syntax. Reading in modern literature, oral practice, free composition, translation.—Staff. Course Chairman: T. Greene.

*Prerequisite: BC 1001-BC 1002, BC 1102, C1101-C1102, or an appropriate score on the placement test.*

*Enrollment limited to 20 students per section. Work in the language laboratory is required.*

3 points.

Section I M W F 9:00. *To be announced.*

Section II M W F 10:00. T. Greene.

Section III M W F 11:00. *To be announced.*

Section IV M W 1:10-2:25. S. Cohen.

Section V Tu Th 10:35-11:50. M. Barsoum.

Section VI Tu Th 1:10-2:25. C. Holland.

Section VII Tu Th 1:10-2:25. *To be announced.*

## **FRE BC 1203y. Intermediate Course.**

Equivalent of BC 1203x but given in the Spring Term.—Staff. Course Chairman: E. Dezon-Jones.

*Prerequisite: BC 1001-BC 1002, BC 1102x, C 1101-C 1102, or an appropriate score on the placement test.*

*Enrollment limited to 20 students per section. Work in the language laboratory is required.*

3 points.

Section I M W F 9:00. M. Barsoum.

Section II M W F 10:00. E. Dezon-Jones.

Section III M W F 11:00. A. Boyman.

Section IV Tu Th 9:10-10:25. *To be announced.*

Section V Tu Th 1:10-2:25. D. Powell.

## **FRE BC 1204x. French through Literary Analysis.**

Study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French.—Staff. Course Chairman: A. Boyman.

*Prerequisite: BC 1203 or an appropriate score on the placement test. Enrollment limited to 20 stu-*

*dents per section. Work in the language laboratory is required.*

3 points.

Section I M W F 9:00. M-T. Killiam.

Section II M W F 10:00. S. Cohen.

Section III M W F 12:00. *To be announced.*

Section IV M W F 1:10-2:00. *To be announced.*

Section V Tu Th 10:35-11:50. *To be announced.*

Section VI Tu Th 1:10-2:25. M. Barsoum.

## **FRE BC 1204y. French through Literary Analysis.**

Equivalent of BC 1204x but given in the Spring Term.—Staff. Course Chairman: R. Geen.

*Prerequisite: BC 1203 or an appropriate score on the placement test. Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.*

Section I M W F 9:00. M-T. Killiam..

Section II M W F 10:00. R. Geen.

Section III M W F 11:00. M. Barsoum.

Section IV M W 1:10-2:25. S. Cohen.

Section V Tu Th 10:35-11:50. *To be announced.*

Section VI Tu Th 1:10-2:25. *To be announced.*

Section VII Tu Th 1:10-2:25. C. Holland.

## **FRE BC 1205x. Intermediate Oral French.**

Intensive oral work. Pronunciation exercises, vocabulary enrichment through discussions on prepared topics, poetry recitation and theatrical presentations.—M. Levowitz.

*Prerequisite: BC 1102 or BC 1203, or a satisfactory score on the placement test. This course does not satisfy the language requirement. Work in the language laboratory is required. Enrollment limited to 15 students.*

3 points. M W 1:10-2:25.

## **FRE BC 1306x. Composition and Conversation.**

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development, conversations, debates based on controversial themes, and selected literary readings.—A. Boyman.

*Prerequisite: BC 1204 or a satisfactory score on the placement test. Enrollment limited to 15 students. Work in the language laboratory is required.*

3 points. M W F 10:00.

## **FRE BC 1306y. Composition and Conversation.**

Equivalent of BC 1306x but given in the Spring Term.—T. Greene.

*Prerequisite: BC 1204 or a satisfactory score on the placement test. Enrollment limited to 15 students. Work in the language laboratory is required.*

3 points. M W F 10:00.



## **FRE BC 3012y. History of the French Language.**

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the twentieth century. Analysis and translation of representative texts.—To be announced.

*Upperclassmen preferred. Offered in alternate years. Offered in 1985-86.*

*3 points.*

## **FRE BC 3013y. Advanced Composition and Grammar Review.**

Systematic study of morphology, syntax and idiomatic constructions; exercises, compositions, occasional translations into French.—E. Dezon-Jones. *Nonmajors may take the course with the permission of the instructor. Offered in alternate years.*

*3 points. M W 2:30-3:45.*

## **FRE BC 3014y. Advanced Translation.**

Translation of various styles of prose and poetry from French to English.—P. Terry.

*Nonmajors may take the course with the permission of the instructor. Offered in 1985-86.*

*3 points.*

## **FRE BC 3015x. Advanced Translation into French.**

Translation from English to French of various styles of prose and poetry.—R. Geen.

*Nonmajors may take the course with the permission of the instructor.*

*Offered in 1985-86.*

*3 points.*

## **FRE BC 3016y. Advanced Oral French.**

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in pronunciation and intonation through conversations, debates based on newspaper articles, dramatic readings and oral *explication de texte*.—Instructor to be announced.

*Nonmajors may take the course with the permission of the instructor. Enrollment limited to 15 students.*

*Work in the language laboratory is required.*

*3 points. Tu Th 10:35-11:50.*

## **FRE BC 3017x. Advanced Translation: Theatrical Dialogue.**

Translation of passages from French plays and movie scripts. Group and individual projects.—A Boyman.

*Nonmajors may take the course with the permission of the instructor.*

*3 points. M W 1:10-2:25.*

## LITERATURE COURSES

For nonmajors, the literature courses listed in this section will count toward the general requirement. Courses BC 3047 and BC 3048 are conducted in English.

### **FRE BC 3020x. Special Themes in Modern French Literature: The Couple in the Twentieth-Century Novel.**

A study of how social changes and different moral attitudes have affected the couple's relationship. New dimensions: De-polarization and "Demythification." Writers include: Rachilde, Mauriac, Gide, Colette, Giraudoux, Rochefort, Wittig.—C. Holland.

*Prerequisite: Satisfaction of the language requirement in French. Enrollment limited to 20 students.*

*3 points. Tu Th 10:35-11:50.*

(II)

### **FRE BC 3020y. Special Themes in Modern French Literature: Love and its Vicissitudes.**

*Prerequisite: Satisfaction of the language requirement in French. Enrollment limited to 20 students.*

*Not offered in 1984-85.*

*3 points.*

(II)

### **FRE BC 3021x, FRE BC 3022y. Masterpieces of Literature from the Middle Ages to the Twentieth Century.**

Scope and variety of French literature through analyses of significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022.—T. Greene.

*Prerequisite: Satisfaction of the language requirement in French.*

*3 points. M W F 11:00.*

(II)

### **FRE BC 3021y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.**

Equivalent of Course BC 3021x but given in the Spring Term.—M. Barsoum.

*Prerequisite: Satisfaction of the language requirement in French.*

*3 points. M W 1:10-2:25.*

(II)

### **FRE BC 3022x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.**

Equivalent of BC 3022y but given in the Autumn Term.—R. Geen.

*Prerequisite: Satisfaction of the language requirement in French.*

*3 points. M M F 10:00.*

(II)

# French

## **FRE BC 3023x, FRE BC 3024y. The Culture and Institutions of France.**

Major cultural and institutional foundations of France from the Middle Ages to the present; the play of these forces on the contemporary period. Readings include historical, religious, and literary sources.—S. Gavronsky.

*Prerequisite: Satisfaction of the language requirement in French. Offered in alternate years. Offered in 1985-86.*

3 points. (II)

## **FRE BC 3031y. The Middle Ages.**

Medieval French literature in its historical and cultural context: *La Chanson de Roland*, the Tristan poems of Béroul and Thomas, Abélard, Chrétien de Troyes, Marie de France and *La Quête du Saint Graal*. Certain of the texts will be read in Old French.—Instructor to be announced.

*Nonmajors may take the course with the permission of the instructor. Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor. Offered in 1985-86.*

3 points. (II)

## **FRE BC 3032x. Renaissance and Classical Prose.**

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, La Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 20 students.*

3 points. M W 1:10-2:25. (II)

## **FRE BC 3033x. Renaissance, Baroque, and Classical Poetry.**

Form, content, and aesthetics of poets from Marot to La Fontaine, including Marguerite de Navarre, Louise Labé, Maurice Scève, du Bellay, Ronsard, d'Aubigné, Sponde, other Baroque poets, Boileau, and Racine.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 20 students. Offered in 1985-86.*

3 points. M W 1:00-2:25. (II)

## **FRE BC 3034x. The French Theater of the Seventeenth Century.**

Corneille, Racine, and Molière.—R. Geen.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor. Offered in 1985-86.*

3 points. (II)

## **FRE BC 3035y. Eighteenth-Century French Fiction.**

Varieties of prose fiction, including selections from the works of Lesage, Marivaux, Prévost, Voltaire, Rousseau, Bernardin, Diderot, and Laclos.—R. Geen.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.*

3 points. M W F 11:00. (II)

## **FRE BC 3037y. Nineteenth-Century French Poetry.**

Poetry and poetics from Romanticism through Symbolism. Selections from the works of Hugo, Nerval, Baudelaire, Rimbaud, and Mallarmé.—A. Boyman.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.*

3 points. M W F 10:00. (II)

## **FRE BC 3038y. The Nineteenth-Century French Novel.**

Evolution of the novel, aesthetics of Romanticism, Realism and Naturalism. Authors will include Balzac, Stendhal, Flaubert, and Zola.—E. Dezon-Jones.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent or the permission of the instructor. Offered in 1985-86.*

3 points. (II)

## **FRE BC 3039x. Twentieth-Century French Theater.**

Tradition and innovation in major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal.—R. Geen.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Offered in alternate years.*

3 points. M W F 11:00. (II)

## **FRE BC 3040y. Twentieth-Century Fiction.**

Theory and forms of the novel and other prose genres: Proust, *Du Côté de chez Swann*; Gide, *Les Faux-monnayeurs*; Malraux, *La Condition humaine*; Sartre, *La Nausée*; Camus, *L'Etranger*; Butor, *La Modification*; Robbe-Grillet, *La Jalousie*.—E. Dezon-Jones.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.*

3 points. M W 1:10-2:25. (II)

## **FRE BC 3041x. Twentieth-Century French Thought.**

Definitions of language, revolution, and science in major texts from Surrealism to Structuralism: Breton, Aragon, Sartre, Camus, Barthes and Lévi-Strauss.—S. Gavronsky and M. Colesanti.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.*

3 points. Tu Th 1:10-2:25. (II)



## **FRE BC 3042x. Twentieth-Century French Poetry.**

Reality and literary language in contemporary poetry and poetics. Readings include Apollinaire, Breton, Eluard, Michaux, Ponge and Perse.—S. Gavronsky.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Offered in 1985-86.*

3 points. (II)

## **FRE BC 3043y. French Women Writers.**

Literary and cultural study of prose writers, poets, and influential groups, with emphasis on Louise Labé, the *Précieuses*, Madame de Sévigné, Madame de La Fayette, Madame de Staël, George Sand, Colette, Beauvoir, Sarraute, Duras, Rochefort, Vilморin, Wittig, Cixous.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 25 students. Offered in 1985-86.*

3 points. (II)

## **FRE BC 3044y. Materials and Techniques of French Poetry.**

Theme, emotion, ideas and programs, and techniques such as meter, rhyme, rhythm, sound, set forms, images, metaphors and symbols, vocabulary, and the prose poem, from early French poetry to the Surrealists and recent poetry.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 15 students.*

3 points. M W 2:10-3:25. (II)

## **FRE BC 3047x. Feminism and the Theory of Modernism.**

This course examines contemporary French feminism, both as a theory and as a literary practice, in terms of its relation to the theory of modernism that has emerged in France since the 1960s. Selected readings from Barthes, Lacan, Derrida, Kristeva, Cixous, Irigaray, and others. A. Boyman.

*Prerequisite: Satisfaction of the language requirement in French.*

3 points. M W F 11:00. (II)

## **FRE BC 3048y. Strategies of Mystery.**

Technique and ideology of detective fiction. Evolution of the detective hero from historical figure to national myth. Parody of the genre and dislocation of the detective codes in modern novels and plays. Authors include Balzac, Poe (tr. Baudelaire), Leblanc, Simenon, Vian, Sartre, Ionesco, Robbe-Grillet, and Butor.—R. Geen.

*Prerequisite: Satisfaction of the foreign language requirement in French.*

3 points. M W 1:10-2:25. (II)

## SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

## **FRE BC 3052x. Seminar for Senior Majors.**

Stendhal.—M. Levowitz.

4 points. W 4:10-6:00.

## **FRE BC 3059x, FRE BC 3060y.**

### **Senior Project.**

A. Research into a precise topic of French literature and preparation of a long essay in French. Open to seniors with honor grades. Students electing a one-year senior project take four one-term literature courses numbered BC 3031-BC 3046; the thesis defense constitutes the oral section. BC 3059 or BC 3060 may be taken alone with special permission. The thesis defense constitutes the oral section. —Staff.

B. Presentation and translation into English of a French text of significant length and literary value. Students taking this course as a one-semester project will take the written section of the major examination, the defense of the translation project constitutes the oral section. Students with honor grades may elect a one-year project; they are excused from the major examination; the defense of the translation project constitutes the oral section.—S. Gavronsky. Tu 4:10-6:00.

## STUDY IN PARIS

Columbia-Barnard Reid Hall Programs.  
419 Lewisohn Hall.

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard and Columbia Colleges. Barnard and Columbia sponsor three distinct programs there during the academic year. The programs are open to students with majors in all fields. To assure validation of credits students should work closely with their major advisers.

There are three semester-long institutes in French culture, language and literature. During the Autumn Semester, the institutes are conducted at the intermediate and advanced levels. During the Spring Semester only the advanced level institute is offered. The Spring Advanced Institute, however, includes the opportunity to take one or two courses in the French University system as well as fine arts and an anthropology course at Reid Hall.

# French

## INTERMEDIATE INSTITUTE

Open to all students, except freshmen, who have completed first year college French or the equivalent.

Autumn:

### **FRE H 1201p. Intermediate Course, first half.**

Emphasis on the spoken language, pronunciation, oral-aural drill. Reading of contemporary texts. Inductive study of grammar.

*4 points. Credit is not granted for both BC 1203 and HI201.*

### **FRE H 1202q. Intermediate Course, second half.**

Continued emphasis on spoken French; increased emphasis on reading and composition.

*4 points. Credit is not granted for both BC 1204 and HI202.*

### **FRE H 3335q. Masterpieces of French Literature.**

Analysis and discussion of major works of Medieval, Renaissance, and Classical literature. Introduction to methods of *explication de texte*.

*4 points. Credit is not granted for both BC 3021 and H3335.* (II)

### **FRE H 3445q. French Civilization and Culture.**

French art and architecture, illustrating the periods approached through literature in H3335.

Credit is not granted for both BC 3023 and H3445.

## ADVANCED INSTITUTES

Open to students who have completed French BC 3021, BC 3022 or its equivalents.

Autumn:

### **FRE H 3003x. Phonetics.**

Theoretical analysis of the phonemic, phonetic and physiological characteristics of French speech. Practical work emphasizing articulation, rhythm, stress, and intonation.—S. Lecointre.

*2 points. Hours to be arranged.*

### **History HIS H 3250x. French Foreign Policies since the Second World War.**

Focus on a number of French preoccupations in the sphere of international relations; evolution of certain French attitudes and concerns, and contemporary French foreign policy.—P. Melandri.

*4 points. Hours to be arranged.* (III)

### **FRE H 3442p. Advanced Composition and Explication.**

Morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition.

*4 points. Credit is not granted for both BC 3013 and H 3442.*

### **FRE H 3446x. French Civilization and Culture seen through the Sociology of Literature.**

France since World War II and its sense of its own past; its literature and ideology. Emphasis on political and historical structures and class systems and critical systems through the study of two or three literary texts.

*4 points. Credit is not granted for both BC 3024 and H 3446.*

### **FRE H 3602x. Contemporary French Literature.**

Major trends in French thought since 1945, as they appear in poetry, fiction, criticism, and the theater; backgrounds in thought of the pre-war period.

*4 points. Credit is not granted for both BC 3041 and H 3602.* (II)

### **FRE H 3604q. Seminar.**

Art history of the twentieth century, with emphasis on contemporary art.

*3 points.*

Spring:

### **FRE H 3442y. Advanced Composition and Explication.**

Morphology and syntax. Readings from H 3602 are used for analysis and *explication de texte* as well as for intensive training in composition.

*4 points. Credit is not granted for both BC 3013 and H 3442.*

### **FRE H 3446y. Civilization of Modern France.**

Same course as H 3446x.

*4 points. Credit is not granted for both BC 3024 and H 3446.*

### **FRE H 3602y. Contemporary French Literature.**

Same course as H 3602x.

*4 points. Credit is not granted for both BC 3041 and H 3602.* (II)

### **Anthropology ANT H 3820y. Ethnography of French Society.**

The methods and goals of socio-cultural anthropology applied to the understanding of French society. Course is divided into five units, each dealing with a domain of social activity: e.g., kinship



and the family, socialization, political behavior/institutions, religion and belief.—S. Rodgers.  
3 points. (V)

## **Fine Arts FAR H 3710y. Fine Arts in Paris.**

Focus on artists and architecture that can be studied to best advantage in Paris: Delacroix, Monet, Chartres, Versailles; and on artists whose work has a meaningful place in French history of art: Leonardo da Vinci, Rubens, Picasso.—O. Lorsignol.  
3 points.

## **French Women's Studies FWS H 3450y. Contemporary French Thought and Feminist Theory: Critical Approaches to Women and Literature.**

Emphasis on the issues of gender as they affect the production of and responses to theoretical and literary texts.—Nancy Huston.

*Prerequisite: French BC 3021, BC 3022 or its equivalents plus two semesters of work in Women's Studies.*

4 points. Hours to be arranged.

## **History/Women's Studies HWS H 3550y. Women and Society.**

Although the theme of this course will vary from one year to another, it will consistently focus on some aspect of women and society. Instructor to be announced.

*Prerequisite: French BC 3021, BC 3022 or its equivalents plus two semesters of work in Women's Studies.*

4 points. Hours to be arranged.

## **WOMEN'S STUDIES INSTITUTE**

The Women's Studies Institute is a spring semester Reid Hall program, consisting of the following four courses: H 3442: *Advanced Composition and Ex- plication*; H 3606: *Supervised Study in the French University System*; French-Women's Studies H 3450: *Contemporary French Thought and Feminist Theory*; History-Women's Studies H 3550: *Women and Society*. The program is more fully described in this catalogue under the heading of Women's Studies (see page 261).

## **ACADEMIC YEAR PROGRAM**

The two courses listed below constitute a full year's program. Primarily for juniors sufficiently ad- vanced in French and in their majors (should the major not be French) to be able to profit from the program and particularly from the tutorial (H 3997- H 3998) in the direction of a French expert on the student's particular area of interest.

This program, designed to meet the needs of those students capable of immersion in the French Uni- versity system and of direct communication with the tutor in the area of their choice, is distinguished by a tutorial. The program of courses is selected individually for each student. The tutorial consists of weekly hourlong meetings with the tutor and culminates in a thesis which is an original and carefully researched work. Eminent members of the French intellectual community serve as tutors.

Students register for appropriate courses in the French University system in major and elective fields. Both the course work and the tutor are selected in close consultation with the Director of Studies and with members of the appropriate Bar- nard or Columbia faculties.

## **FRE H 3991x-FRE H 3992y. Supervised Study in the French University System.**

Special study under the supervision of the Director of Studies. The program requires that students follow the equivalent of 9 hours of class instruction per week per semester. Permission of the major ad- viser and the chairman of the Barnard Department of French is required.

1 to 15 points.

## **FRE H 3997x-FRE H 3998y. Supervised Study in France.**

Special research under the supervision of the Direc- tor of Studies involving individual work with an established specialist in the student's major field. Permission of the major adviser and the chairman of the Barnard Department of French is required.

2 to 6 points.

# Freshman Seminar Program

*Program Office: 403 Lehman Hall*

*Telephone: 280-5046, 2159*

This program is supervised by the Freshman Seminar Committee:

**Professor of Russian**

Marina Astman

**Professor of Political Science**

Dennis Dalton

**Professor of Philosophy**

Sue Larson

**Professor of History**

Robert A. McCaughey (Director)

**Associate Professor of Classics**

Helene P. Foley

Instruction in the Freshman Seminar Program is provided by the following regular members of the Barnard College Faculty:

**Professors**

Marina Astman (Russian), Helen Bacon (Classics),<sup>1</sup> Dennis Dalton (Political Science), Hubert Doris (Music), Serge Gavronsky (French), Renée Geen (French), Richard Gustafson (Russian), Peter Juviler (Political Science),<sup>1</sup> Morton Klass (Anthropology), Sue Larson (Philosophy), Alfred MacAdam (Spanish), Robert A. McCaughey (History), John Meskill (Oriental Studies),<sup>1</sup> Deborah Milenkovich (Economics),<sup>1</sup> Barbara Miller (Oriental Studies), Mary Mothersill (Philosophy), Alan Segal (Religion),<sup>1</sup> Mirella Servodidio (Spanish),<sup>1</sup> Suzanne Wemple (History)<sup>1</sup>

**Associate Professors**

Helene P. Foley (Classics), Lydia Lenaghan (Classics), Nancy Miller (Women's Studies), Richard Pious (Political Science), Marcia Welles (Spanish)<sup>1</sup>

**Assistant Professors**

Anne Boyman (French), André Burgstaller (Economics),<sup>1</sup> Mark C. Carnes (History), Marilyn Harran (Religion),<sup>1</sup> William McNeil (History), Jeffrey Merrick (History), Nicholas Rango (Health and Society),<sup>1</sup> Janet Riesman (History), Celeste Schenck (English)

**Lecturers and Associates**

Helene de Aguilar (Spanish), Regina Ayre (German), Konrad Czinski, Marjorie Dobkin (English),<sup>1</sup> Sue Sacks (Education), Marvin Shulman (German)

<sup>1</sup>Will be providing instruction in 1985-86.

**Purpose and Structure**

Every Barnard freshman, beginning with the class entering in 1984, is required to take a Freshman Seminar during her first or second semester at Barnard. The purposes of the Freshman Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through an examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, Freshman Seminars should provide entering Barnard students with an early and positive additional measure of institutional identity.



# Freshman Seminar Program

Accordingly, all Freshman Seminars share a common structure:

- Each will meet at least twice a week in regularly scheduled class periods.
- Each will have its enrollment limited to twenty or fewer students.
- Reading assignments will consist of a *maximum* of six book-length assignments or their equivalent (about 2000 pages).
- Writing assignments will consist of a *minimum* of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking of an earlier assignment; editing the work of others) and length.
- The regular grading practices of the College will be followed.
- Upon completion of the course, students will be provided an opportunity to evaluate their Freshman Seminar and to offer suggestions as to how it might be improved in subsequent years.

## COURSES OF INSTRUCTION

The 1984-85 Freshman Seminar Program consists of twenty-eight seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Ways of Knowing

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. Student preferences will be indicated by cluster, not by individual seminar, except in the instance of “V. Ways of Knowing,” where a preference for a specific seminar within the cluster will be honored whenever possible. (Procedures for selecting Freshman Seminars are described in Freshman Registration materials.)

### I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or timeless genre through a close reading of texts drawn from the sweep of classical and western literature.

#### FSM BC 1101y. The Comic Mode.

This seminar explores the comic tradition in plays, fiction, and theory, focusing on its forms, techniques, and points of view, and especially on the use of comedy as criticism of institutions, conventions, and moral values.

Aristophanes, *The Clouds*

William Shakespeare, *A Midsummer Night's Dream*

Miguel de Cervantes, *Don Quixote* (Book One)

Voltaire, *Candide*

Nikolai Gogol, *Dead Souls*

Franz Kafka, “Report to the Academy”

Bertold Brecht, *The Threepenny Opera*

Regina Ayre, German Department

Spring Tu Th 2:40-3:55.

#### FSM BC 1102y. The Epic Experience.

Heroic encounters with others and with death lead to definitions of self and discovery of purpose in life. The representation and function of women in the epic. Comparison of Greek and Russian cultural values in national epics, as well as ancient and modern epic style.

Homer, *The Iliad* and *The Odyssey*

Leo Tolstoy, *War and Peace*

Richard Gustafson, Russian Department  
Spring Tu Th 1:10-2:25.

#### FSM BC 1103x. The Tragic Vision.

The tragic mode in dramatic and non-dramatic forms of literature; mythic, philosophical and social roots of the tragic hero.

Sophocles, *Oedipus the King*

*The Book of Job*

Blaise Pascal, *Pensées*

Fyodor Dostoevsky, *Crime and Punishment*

Henrik Ibsen, *The Wild Duck*

Albert Camus, *The Myth of Sisyphus*

Samuel Beckett, *Endgame*

Renée Geen, French Department

Fall M W 1:10-2:25.

# Freshman Seminar Program

## **FSM BC 1104x. The Idea of the Self.**

An investigation of mainly autobiographical texts with particular attention to the terms of self-description, the self as literary subject; significant factors in the definition and realization of self; the interior and exterior life; the self as model for others.

Ovid, Selections from *Heroides*, *Metamorphoses*, *Tristia*

Apuleius, *The Golden Ass*

St. Augustine, *The Confessions*

Jean-Jacques Rousseau, *The Confessions*

John Stuart Mill, *Autobiography*

Henry David Thoreau, *Walden*

*Lydia Lenaghan, Classics Department*

*Fall M W 2:40-3:55.*

## **FSM BC 1105. Evil, Justice, and Sacrifice.**

Study of the themes of evil, justice and sacrifice in select Biblical texts, as well as interpreted in classical, medieval and modern literature.

*The Old Testament*

*The Song of Roland*

Joseph Conrad, *The Heart of Darkness*

Soren Kierkegaard, *Fear and Trembling*

Shusako Endo, *Silence*

Herman Melville, *Billy Budd*

*Marilyn Harran, Religion Department*

*1985-1986*

## **Additional Instructors for 1985-1986:**

Helen Bacon, Classics Department

Alan Segal, Religion Department

## **II. THE INDIVIDUAL AND THE SOCIAL ORDER**

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society. Each will draw at least half its readings from the work of the following authors:

Plato

*The Bible*

Niccolo Machiavelli

William Shakespeare

Thomas Hobbes

John Locke

Jean-Jacques Rousseau

Thomas Paine

Henry David Thoreau

Fyodor Dostoevsky

Karl Marx-Friedrich Engels

Sigmund Freud

Max Weber

Franz Kafka

George Orwell

## **FSM 1201x. The Artist and Society.**

An investigation of the relationship of the artist and society as it reflects the intellectual climate of the modern age. Supplementary readings include the work of Luigi Pirandello, James Joyce, Thomas Mann, and Herman Hesse.

*Marvin Shulman, German Department*

*Fall Tu Th 2:40-3:55.*

## **FSM BC 1202y. Concepts of Order.**

This seminar begins by examining conceptions of chaos and the coming of order, the organization of things and of conscious human existence within them. It will go on to examine concepts of order in art, society and nature. Supplementary readings from *The Eddas*, Aristotle, Diderot, Charles Darwin.

*Hubert Doris, Music Department*

*Spring Tu Th 10:40-11:55.*

## **FSM 1203x. The Crisis of Authority.**

An examination of the authority relationship and its collapse. The seminar will consider how authority is accepted, confronted, confined, and reconstituted. Supplementary readings from Thucydides, James Madison, and Martin Luther King, Jr.

*Richard Pious, Political Science*

*Fall M W 1:10-2:25.*

## **FSM BC 1204x. The Utopian Tradition in Western Thought.**

Idealized programs for the regeneration of the individual and the reordering of society according to natural, religious, rational, and/or egalitarian norms, from classical and Christian models to socialist and psycho-social manifestos. Supplementary readings from St. Augustine, Montaigne.

*Jeffrey Merrick, History Department*

*Fall M W 2:40-3:55.*

## **FSM BC 1205x. Utopian Dreams and Schemes: East and West.**

An examination of the ideas of visionaries such as Plato, Confucius, and the New England Puritans; an exploration of attempts to transform these visions into reality. Supplementary readings from the work of Confucius, Mencius, John Bunyan, Robespierre.

*Mark Carnes, History Department*

*Fall M W 11:00-12:15.*

## **FSM BC 1206y. Violence and Non-Violence.**

An exploration of the causes and consequences, nature and dynamics, of violence and non-violence, ranging over a broad spectrum of topics. Supplementary readings from Sophocles, Gandhi, William Golding, Martin Luther King, Jr.

*Dennis Dalton, Political Science*

*Spring M W 4:10-5:25.*



# Freshman Seminar Program

## Additional Instructors for 1985-86

Marjorie Dobkin, English Department  
Peter Juviler, Political Science Department  
John Meskill, Oriental Studies Department

## III. WOMEN IN LITERATURE AND CULTURE

These seminars focus on the ways women's experience has been imagined in literature, constructed in culture, and functioned in society. Emphasis will be on major themes of female destiny and desire: possibilities and limits; rites-of-passage; models of rebellion; alternative visions and strategies. Attitudes toward sacrifice, courtship, marriage, motherhood, and adultery will be examined in selected works of Western and non-Western literature.

Each seminar will draw approximately two-thirds of its readings from the following core list of writings:

Virginia Woolf, *A Room of One's Own*  
Homer, *The Odyssey*  
Sophocles, *Antigone*  
Kalidasa, *Sakuntala*  
William Shakespeare, *As You Like It*  
Leo Tolstoy, *Anna Karenina*  
Lyric Poetry: by Sappho, early Buddhist nuns,  
Emily Dickinson, Anna Akhmatova, Sylvia  
Plath, Adrienne Rich

These seminars will meet twice as a group; at mid-semester, to see and discuss a film; at the last meeting, to present lyric poetry in several languages.

### FSM BC 1301x.

Selected supplementary readings:

Christine de Pizan, *The Book of the City of Ladies*  
Ivan Turgenev, *A Nest of Gentle Folk*  
Marina Astman, *Russian Department*  
Fall M W F 10:00-10:50.

### FSM BC 1302x.

Selected supplementary readings:

Homeric Hymn to Demeter  
Charlotte Brontë, *Villette*  
Helene Foley, *Classics Department*  
Fall T Th 1:10-2:25.

### FSM BC 1303y.

Selected supplementary readings:

E. M. Forster, *A Passage to India*  
Nathaniel Hawthorne, *The Scarlet Letter*  
Barbara Miller, *Oriental Studies*  
Spring M W 4:10-5:25.

### FSM BC 1304x.

Selected supplementary readings:

Gustave Flaubert, *Madame Bovary*  
Simone de Beauvoir, *The Second Sex*  
Nancy Miller, *Women's Studies*  
Fall M W 2:40-3:55.

### FSM BC 1305x & FSM BC 1305y.

Selected supplementary readings:

George Eliot, *Mill on the Floss*  
Margaret Drabble, *The Waterfall*  
Celeste Schenck, *English Department*  
Fall/Spring T Th 10:40-11:55.

### FSM BC 1306y.

Selected supplementary readings:

Willa Cather, *My Antonia*  
Rainer Maria Rilke, *Letters to a Young Poet*  
Sue Sacks, *Education Program*  
Spring T Th 2:40-3:55.

## Additional Instructors for 1985-86

Suzanne Wemple, History Department

## IV. ASPECTS OF THE MODERN CONDITION

These seminars concern themselves with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings will include works of fiction, biography, and social theory.

### FSM BC 1401x. The Modern Idea of Freedom.

This seminar examines texts, from the seventeenth to the twentieth century, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses. Readings include:

Pedro Calderon de la Barca, *Life Is a Dream*  
Jonathan Swift, *Travels into Several Remote Regions of the World*  
Charles Darwin, *The Origin of Species*  
Sigmund Freud, *Beyond the Pleasure Principle*  
Jorge Luis Borges, "Tlon, Ugbar, Orbis Tertius"  
Alfred MacAdam, *Spanish Department*  
Fall T Th 10:35-11:50

# Freshman Seminar Program

## **FSM BC 1402x. Twentieth Century Humanism.**

Close textual analysis of the multiple aspects of twentieth century humanism through a study of some of the major European literary, historical, philosophical and ideological sources. Readings include:

Ossip. E. Mandel'shtam, Selections from  
*Complete Poems*

Bertold Brecht, *The Good Woman of Sechuan*

André Malraux, *Man's Fate*

Maxim Gorki, *The Lower Depths*

Georges Bernanos, *Diary of a Country Priest*

Cesar Vallejo, Selections from an anthology of his poetry

Serge Gavronsky, *French Department*  
Fall T Th 9:10-10:25.

## **FSM BC 1403x. The Rise and Fall of Modern Liberalism.**

Liberalism, with its social, political and economic ethos, has been at the ideological center of the modern, industrial world. This seminar examines classic statements of the liberal ideal, major challenges to it, and how liberal ideas have changed over time. Readings include:

John Locke, *Two Treatises on Government*

Adam Smith, *Wealth of Nations*

Mary Wollstonecraft, *A Vindication of the Rights of Women*

John Stuart Mill, *On Liberty*

Rosa Luxemburg, "Leninism or Marxism?"

V. I. Lenin, *What Is To Be Done*

Sigmund Freud, *Civilization and Its Discontents*

Milton Friedman, *Capitalism and Freedom*

William McNeil, *History Department*  
Fall T Th 9:10-10:25.

## **FSM BC 1404x. The Intellectual and the Powers.**

This seminar focuses on the relationship of the modern intellectual and the standing agents of power and order. Specifically considered will be the intellectual as apologist, as adversary, as subversive, as detached observer. Readings include:

Jonathan Swift, "An Argument Against Abolishing Christianity" and "A Modest Proposal"

Karl Marx, *The German Ideology* and *The Communist Manifesto*

William James, "The Moral Equivalent of War"

George Orwell, *Homage to Catalonia*

Lionel Trilling, *The Liberal Imagination*

Aleksander Solzhenitsyn, *One Day in the Life of Ivan Denisovich*

Robert A. McCaughey, *History Department*  
Fall M W 11:00-12:15.

## **FSM BC 1405y. Modernism and Self-Reflection.**

Self-reflection taken as the principal and key trope of modernism. The concept of self-reflection will be discussed as a theoretical concept in literature and applied to other art-forms. Readings include:

Paul Valery, selections from *Charms*

Marcel Proust, selections from *Remembrance of Things Past*

James Joyce, *Portrait of the Artist as a Young Man*

Samuel Beckett, *Malone Dies* and *The Unnameable*

Anne Boyman, *French Department*  
Spring M W 1:10-2:25.

## **Additional Instructors for 1984-85**

Konrad Czinski, *French Department*  
(Spring) FSM 1406y. T Th 2:40-3:55.

## **Additional Instructors for 1985-1986**

Andre Burgstaller, *Economics Department*  
Deborah Milenkovitch, *Economics Department*  
Nicholas Rango, *Health and Society Program*  
Marcia Welles, *Spanish Department*

## **V. WAYS OF KNOWING**

These seminars share an epistemological preoccupation. Each examines the possibilities and limits of knowledge of several varieties: philosophical; historical; scientific; aesthetic.

## **FSM BC 1501x. Subjective/Objective.**

The question to be considered is how to formulate the distinction between those topics, feelings, opinions, judgments that are properly called "subjective" and those (if any) that are not. The subjective/objective distinction will be examined in literary, scientific, philosophical and legal contexts. Readings include:

Plato, *Euthyphro*, *Gorgias*

Epictetus, *Discourses*

Montaigne, *Essays*

Blaise Pascal, *Pensées*

Daniel Defoe, *Robinson Crusoe*

William Wordsworth, *Ode: Intimations of Immortality & Etc.*

Marcel Proust, *Remembrance of Things Past* (Vol. I)

Stuart Hampshire, ed., *Private and Public Morality*

E. M. Forster, *Howards End*

Iris Murdoch, *The Sovereignty of God*

Mary Mothersill, *Philosophy Department*  
Fall M W 11:00-12:15.



# Freshman Seminar Program

## FSM BC 1502y. Truth.

What is truth? Why should we care about it? When should we tell it? How is it related to proof, possibility and knowledge? Can there be a science of truth? Such questions will be discussed in relation to classical texts of the western tradition.

Readings include:

*The Gospel of John*

Thucydides, *The Peloponnesian Wars*

Aristotle

Sigmund Freud, *Moses and Monotheism*

Leo Tolstoy, *What is Art?*

Sissela Bok, *Lying*

Sue Larson, *Philosophy Department*

Spring M W 11:00-12:15.

## FSM BC 1503x. Cosmology, Causality, and Time.

This seminar explores the origins of one of our current intellectual dilemmas: the collapse of a conventional sense of time. It examines the historical roots of this dilemma by investigating the interrelationships among assumptions about the physical universe (cosmology), theories of cause and effect, and the experience of time in everyday life. Readings include:

Plato, *Timaeus*

Aristotle, *Physics*

Lucretius, *On the Order of Things*

Copernicus, *On the Revolutions of the Celestial Orbs*

Sigmund Freud, *The Psychopathology of Everyday Life*

García Márquez, *One Hundred Years of Solitude*

Janet Riesman, *History Department*

Fall M W 4:10-5:25.

## FSM BC 1504x. Text and Setting.

An inquiry into the transfiguration, through music, of a literary text. How does musical setting affect language, mood, character and plot development? Works drawn from sacred, art song and operatic repertoire. Readings include:

Giuseppe Verdi, *The Requiem Mass*

Wolfgang Amadeus Mozart, *The Requiem Mass*

Gabriel Fauré, *The Requiem Mass*

William Shakespeare, *Othello*

Giuseppe Verdi, *Otello*

Thomas Mann, *Death in Venice*

Benjamin Britten, *Death in Venice*

Suzanne Langer, *Feeling and Form: A Theory of Art*

Helene de Aguilar, *Spanish Department*

Fall M W 4:10-5:25.

## FSM BC 1505y. The Evolution of “Evolution.”

An exploration of some of the more significant transformations, malformations and reverberations that followed upon Darwin’s “Theory of Evolution.” What about it was so troublesome—or attractive? How did biologists, social scientists and religious people react in the 19th Century, and what are their views today? Readings include:

Charles Darwin, *Origin of Species* and *Descent of Man*

William Irvine, *Apes, Angels and Victorians*

Richard Hofstadter, *Social Darwinism in American Thought*

Stephen Jay Gould, *The Panda’s Thumb*

Morton Klass, *Anthropology Department*

Spring M W 2:40-3:55.

# Geology

*Office: 328 B Milbank Hall*

*Telephone: 280-4312, 8312*

## **Professor**

John E. Sanders

Other officers of the University offering courses in Geology:

## **Professors**

Roger Batten, Wallace Broecker, Ian Dalziel, Arnold Gordon, Dennis Hayes, James Hays, John Kuo, Paul Richards, James Simpson, Lynn Sykes, David Walker, Anthony Watts

## **Associate Professor**

Warren Yasso

## **Adjunct Associate Professors**

Roger Anderson, Dennis Kent

## **Assistant Professors**

Philip M. Carrion, Nicholas Christie-Blick, Charles Langmuir, Paul Olsen, G. Alan Zindler

## **Adjunct Assistant Professor**

Richard Bopp

## **Lecturer**

Anthony Del Genio

Geology is the scientific study of the Earth for the purpose of understanding how past activities have led to present conditions and of how present conditions affect the future. Modern geology involves application of mathematics, physics, chemistry, biology, and computers toward solving problems of the Earth as a planet in the Solar System, of the large-scale dynamics of the earth, of the locations of supplies of natural resources, of the fabric and history of the rock record, and of the origin and history of life. Geology can be applied at many levels, from providing a basis for understanding one's surroundings to background for careers in law, architecture, land-use planning, and real estate to professional careers in research.

Special resources for study of geology at Barnard include those within the College, within the University, and in and around New York City. Barnard facilities in Milbank Hall include photographic darkroom, and sedimentology laboratory. Columbia University facilities in Schermerhorn Hall include teaching laboratories and collections of specimens, and a large research library. The Lamont-Doherty Geological Observatory offers the Geoscience Library, extensive collections of deep-sea sediments and sea-floor rock specimens, and research facilities in geochemistry, seismology, marine geology and geophysics, mineral physics, and micropaleontology, all available to qualified undergraduate majors. The School of International and Public Affairs houses a large collection of maps and U.S. government documents. New York City resources include the American Museum of Natural History with a large collection of research materials, the Goddard Institute of Space Studies, the New York Public Library, Engineering Societies Library, and United Nations Library.

## **REQUIREMENTS FOR THE MAJOR**

Students contemplating a major in geology should consult with the chairman of the department. Majors should plan their programs for their junior and senior years with a view toward including, as desired, courses that are offered only in alternate years. Those who are considering careers for which a doctorate is required should include two foreign languages (German, French or Russian are usually specified) in their programs, as well as the basic science background courses expected of geology majors (one year of physics, chemistry, and mathematics through calculus; familiarity with computers is desirable).



Various major options are possible, including but not limited to classical geology, with emphasis on biologic or nonbiologic aspects; geophysics; geochemistry; environmental geology; and Earth sciences.

Majors should plan to spend at least one summer in geological mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required.

A minimum of 8 courses is required for the major, including

V 1011, V 1012

or

V 1021, V 1022

W 3001x

W 4113

W 4701

BC 3060

and one of the following  
courses

W 4223

W 4232

W 4411

W 4661

*Introduction to Earth Sciences, I and II*

*Physical Geology and Historical Geology*

*Time in the Earth Sciences*

*Introduction to Mineralogy I*

*Introduction to Igneous and*

*Metamorphic Petrology*

*Seminar in Geology*

*Introduction to Sedimentary Geology*

*Concepts and Methods in Biostratigraphy*

*Principles of Structural Geology*

*Introduction to Invertebrate Paleontology*

Exceptions may be made with the approval of the chairman of the department.

## REQUIREMENTS FOR THE MINOR

A minimum of 5 courses is required for the minor, including V 1011-V 1012 or V 1021-V 1022 and any three upper-level courses.

## COURSES OF INSTRUCTION

### GEY V 1011x. Introduction to Earth Sciences, I.

Evolutionary processes and history of planet Earth, its oceans, and atmosphere. Part I: Cosmochemical and geochemical evidence of the evolution of the solar system and early history of Earth. Part II: Geological evolution and history of Earth's crust and lithosphere.—W. Broecker and J. Hays.

*Prerequisite: Basic high-school chemistry, physics, and mathematics.*

*4½ points. Lecture M W F 10:00. Laboratory (3 hours), M Tu W Th 2:10-5:00; Tu Th 9:00-11:50.*

### GEY V 1012y. Introduction to Earth Sciences, II.

Evolutionary processes and history of planet Earth, its oceans, and atmosphere. Part III: Evidence from oceanography and atmospheric science for dynamics of Earth's oceans, atmosphere, and climate. Part IV: Evidence from heat flow, seismology, gravity, and magnetism for the large-scale structure and dynamics of the whole Earth.—A. Gordon and A. Watts.

*Prerequisite: Basic high-school chemistry, physics, and mathematics.*

*4½ points. Lecture M W F 10:00. Laboratory (3 hours), M Tu W Th 2:10-5:00; Tu Th 9:00-11:50.*

### GEY V 1021x. Physical Geology.

Composition and structure of Earth; internal and external forces acting upon it, and surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the Earth's morphology. Three required field trips to local geologic features.—J. Sanders.

*Not offered in 1984-85.*

*4½ points.*

### GEY V 1022y. Historical Geology.

History of Earth and of life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, and a required one-day field trip. A research paper on a geologic topic is required.—J. Sanders.

*Not offered in 1984-85.*

*4½ points.*

# Geology

## **GEY V 1411x. Introduction to Earth Sciences, I.**

The same course as V 1011x but without laboratory.—W. Broecker and J. Hays.

*Prerequisite:* Basic high-school chemistry, physics, and mathematics.

3 points. Lecture: M W F 10:00.

## **GEY V 1412y. Introduction to Earth Sciences, II.**

The same course as V 1012y but without laboratory.—A. Gordon and A. Watts.

*Prerequisite:* Basic high-school chemistry, physics, and mathematics.

3 points. Lecture: M W F 10:00.

## **GEY V 1053y. Planet Earth.**

Accelerated look at how the Earth works. The unifying concept of plate tectonics used to examine surface and internal processes in the Earth. The formation of the Earth followed by a phenomenological analysis of the forces affecting the surface and the body of the Earth with its heat engine, vulcanism, seismology, magnetism, and gravity. Earthquake prediction, ridge-axis hot springs, volcanicity, and deep-sea drilling used to present basic concepts of Earth Science.—R. Anderson.

*Prerequisite:* High-school physics, chemistry, and mathematics.

3 points. M W 10:00-11:15.

## **GEY W 3001x. Time in the Earth Sciences.**

Fundamentals of paleontological and radiochemical methods by which relative and absolute time are estimated throughout the geologic record. Attention will also be given to isotope measurements or rates of significant processes occurring in the present-day ocean.—J. Hays and P. Olsen.

*Prerequisites:* V 1011x-V 1012y or permission of the instructor.

3 points. M W 9:45-11:00.

## **GEY V 3522y. Exploration Geology and Mining Geophysics, I.**

Geological environment of mineral deposits and their structural control. Orogenetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral and hydrocarbon deposits, their detection and interpretation.—P. Carrion.

*Prerequisites:* V 1011-V 1012 or V 1021-V 1022.

3 points. Hours to be arranged.

## **GEY W 4008x. Introduction to Atmospheric Science.**

Basic physical processes controlling structure of atmospheres of Earth and other planets; thermodynamics; radiative transfer; principles of atmospheric dynamics; cloud processes; climate and evolution of atmospheres; models of atmospheres

of Earth, Mars, Venus and Jupiter based on latest spacecraft observations.—A. Del Genio.

*Prerequisite:* Advanced calculus and general physics or permission of the instructor.

3 points. Tu Th 11:00-12:15.

## **GEY W 4009x. Chemical Geology.**

Thermodynamics as applied to Earth systems.—D. Walker.

3 points. M W 11:00-12:15.

## **GEY W 4113x. Introduction to Mineralogy, I.**

Elementary crystallography and crystal structures, optical properties of minerals, mineral associations and phase equilibria, economic minerals. Laboratory: identification of minerals in hand specimen, chemical and physical tests, and use of petrographic microscope.—Instructor to be announced.

*Prerequisite:* V 1011-V 1012 or V 1021-V 1022, and elementary college physics, and chemistry, or permission of the instructor. Given in sequence with W 4114.

3 points. Lecture Tu Th 11:00-11:50. Laboratory Tu 1:10-4:00.

## **GEY W 4411y. Principles of Structural Geology.**

Elementary stress and strain theory; stress and strain determination from geologic structures, folds, and faults; geologic structures of divergent, transform, and convergent plate boundaries. Laboratory work consists of time analysis of geologic structures in maps, cross-sections, hand specimens, and thin sections. Mandatory field trip.—I. Dalziel.

*Prerequisites:* V 1011-V 1012 or V 1021-V 1022 or the equivalent; W 4114 and W 4701.

3 points. Lecture Tu Th 9:45-10:45. Laboratory Th 1:10-4:00.

## **GEY W 4501y. Introduction to Economic Geology.**

Broad survey course suitable for students majoring in sciences and engineering. The following topics discussed: mineral resources of the world; geological descriptions of metallic and non-metallic mineral deposits, geochemical theory of the formation of mineral deposits, and exploration and mining methods.—T. Takahashi.

*Prerequisites:* Chemistry C 1407 and Geology W 4113, or their equivalents, or the instructor's permission. Offered in alternate years.

3 points. M W 12:00-1:15.

## **GEY W 4661y. Introduction to Invertebrate Paleontology.**

The history of life as revealed in the fossil record. A systematic survey of the morphology, ecology,



taxonomy, and evolutionary history of groups of invertebrate animals commonly found as fossils.—R. Batten and J. Hays.

*Prerequisite:* V 1011-V 1012 or V 1021-V 1022 or permission of the instructor. Offered in alternate years. Lecture M W 10:00-10:50. Laboratory M 1:10-4:00.

3 points.

## **GEY W 4701y. Introduction to Igneous and Metamorphic Petrology.**

Compositional characteristics of igneous and metamorphic rocks as indicators of their genesis and evolution. Petrologic aspects of Earth's crust and upper mantle. Development of igneous and metamorphic rocks in a plate tectonic framework. Students not majoring in terrestrial geology may elect to write a substantial term paper rather than attend the laboratory.—C. Langmuir.

*Prerequisite:* V 1011-V 1012 or V 1021-V 1022. W 4113 and knowledge of chemistry recommended.

3 points. Lecture Tu Th 12:00. Laboratory Tu 1:10-4:00.

## **GEY W 4883x. Principles of Geochemistry, I.**

Introduction to radiochemistry; the radiometric dating; processes responsible for chemical makeup of the solar system and the Earth; geochemistry of crust-mantle processes.—G.A. Zindler.

*Recommended preparation:* A sound background in basic chemistry.

3 points. M W 12:15-1:30.

## **GEY W 4884y. Organic Geochemistry.**

Survey of organic geochemistry suitable for students with a strong chemistry background majoring in geology, chemistry, or biology. Origin of organic compounds in oceans, lakes, and sediments; and transport and fate of organic pollutants.—R. Bopp.

*Prerequisite:* One year of college chemistry. Permission of the instructor required. Offered in alternate years.

3 points. Tu Th 11:00-12:15.

## **GEY W 4885y. Principles of Geochemistry, II.**

Introduction to geochemical cycles involving the atmosphere, ocean, land and biosphere; chemistry of precipitation, weathering reactions, rivers, lakes, estuaries, and sedimentary rocks; stable-isotope and radioactive tracers of transport processes in continental waters and the ocean.—W. Broecker.

*Recommended preparation:* A sound background in basic chemistry. Offered in alternate years.

3 points. Tu Th 12:30-1:45.

## **GEY W 4925y. Principles of Physical Oceanography.**

Physical properties of sea water, water masses, and

their distribution, sea-air interaction influence on the ocean structure, basic ocean-circulation pattern, relationship of diffusion and advection with respect to distribution of ocean properties, measurement techniques, and methods of data processing and analysis.—A. Gordon.

*Recommended preparation:* A sound background in mathematics, physics, and chemistry. Offered in alternate years.

3 points. M W 1:15-2:30.

## **GEY W 4926y. Principles of Chemical Oceanography.**

Factors controlling the average concentration and distribution of dissolved chemical species within the sea. Application of tracer and natural-radioisotope methods to large-scale mixing of the ocean, to the geologic record preserved in marine sediments and to the fate of fossil-fuel carbon dioxide.—W. Broecker and J. Simpson.

*Offered in alternate years. Not offered in 1984-85.*

## **GEY W 4928x. Submarine Geology.**

Survey of the geology of deep-sea topography, sediments, crustal rocks, tectonic- and sedimentary processes.—W. B. F. Ryan.

*Prerequisite:* V 1011-V 1012 or V 1021-V 1022 or the equivalent.

3 points. M W 11:00-12:15.

## **GEY W 4941x. Principles of Geophysics.**

Structure of Earth as inferred from geophysical investigation. Principles of measurement and interpretation. Gravity, isostasy, earthquake seismology, refraction and reflection methods, geomagnetism, marine geophysics.—D. Hayes.

*Prerequisites:* Calculus through Mathematics V 1202 and Physics through Physics C 1007.

3 points. M W 2:30-3:45.

## **GEY W 4949x. Introduction to Seismology.**

Basic methods of seismogram analysis; classification of seismic waves and elementary theory of body waves and normal modes; elementary aspects of seismic prospecting, earthquake-source theory, instruments discriminating between explosions and earthquakes, inversion of seismic data to infer Earth structure, earthquake engineering, estimation of seismic risk, and earthquake prediction.—L. Sykes.

*Prerequisite:* One year of college physics and calculus.

3 points. M W 12:00-1:15. Two-hour laboratory every other week at Lamont-Doherty Geological Observatory to be arranged.

# Geology

## **GEY BC 3060y. Seminar in Geology.**

Discussions, problems, and readings on various problems in geology.—Instructor to be announced. *Required of senior majors. Students should consult with the chairman at the beginning of the senior year. Prerequisite: At least one year of geology. 4 points. Hours to be arranged.*

## **COLUMBIA COURSES**

The following courses, listed by subdivisions of the Columbia Department of Geological Sciences, are open to qualified students with the permission of the Barnard chairman.

### **TERRESTRIAL AND MARINE GEOLOGY**

**W 3000x, y. Tutorial Study in the Earth Sciences.**

### **TERRESTRIAL GEOLOGY**

**W 3010x. Field Geology.**

**W 4049x-W 4050y. Tectonic History of the Continents, I and II.**

*Tu Th 9:45-11:00.*

**W 4076y. Geologic Mapping.**

*Offered in alternate years. Hours to be arranged.*

### **GEOPHYSICS: SEISMOLOGY AND ROCK MECHANICS**

**W 4521x. Exploration Geology and Mining Geophysics, II.**

**W 4901x. Paleomagnetism.**

*Offered in alternate years. Hours to be arranged.*

**W 4942y. Geophysical Methods.**

*Offered in alternate years. Hours to be arranged.*

**W 4943x. Thermal Studies of the Earth.**

*Offered in alternate years. Hours to be arranged.*

**W 4945x. Geophysical Theory I.**

**W 4946y. Geophysical Theory II.**

**W 4947y. Plate Tectonics.**

### **PALEONTOLOGY AND PALEOENVIRONMENT**

**W 4030x-W 4031y. Climatic Change.**

*Offered in alternate years.*

*Tu Th 9:45-11:00.*

### **OCEANOGRAPHY AND METEOROLOGY**

**TC 5057x. (Teachers College). Coastal Oceanography.**

*M 3:00-4:40.*

### **SUMMER COURSES**

**S 3070. Field Research.**





# German

Office: 320 Milbank Hall

Telephone: 280-5417

## Professors

Brigitte L. Bradley (Chairman), Gertrud M. Sakrawa

## Lecturer

Regina Ayre

## Instructor

Brunhilde Linke

## Senior Associate

Marvin Shulman

Courses in the German Department are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, West Germany, East Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

In language instruction, the department offers two tracks: 1) a full-year course, German BC 1001-BC 1002, *Elementary Full-Year Course*, and two one-semester courses, German BC 1203-BC 1204, *Intermediate Course I and II*, with an equal emphasis on reading, writing, and speaking; 2) two one-semester courses, German BC 1007, *Elementary German: Intensive Reading*, and German BC 1208, *Intermediate German: Intensive Reading*. The second track courses are designed for students interested in acquiring only a reading knowledge of German. They may not be used to fulfill the language requirement.

Students who have completed, or have been exempted from, BC 1204 may enroll in BC 3005 or BC 3006, *Advanced Oral German and Composition*, or in literature courses taught in German. Special permission is required for enrollment in German BC 3061, BC 3062, the *Seminar* and *Senior Essay*, respectively.

The literature courses taught in German have the twofold objective of combining the study of significant works and cultural manifestations with advanced practice in the use of German both as a written language and as a medium of communication. The department recommends that German BC 3011, *Introduction to German Literature and Civilization*, be elected as the first literature course. There are no prerequisites for courses in German literature in translation.

## REQUIREMENTS FOR THE MAJOR

The major in German includes 9 courses—German BC 3005 or BC 3006, BC 3011 and BC 3061, and six additional advanced courses taught in German. The major examination consists of a three-hour written section (in English) and of an individual oral examination of one-half hour (in German). With special permission a student may submit a senior essay (BC 3062) in place of the written section.

The department recommends that majors include in their programs a minor in another field. While a major in German prepares students for graduate study in German, both a major and, to a lesser degree, a minor in German prepare them also for advanced study in any sub-field of a discipline in which competence in the German language and/or a knowledge of the culture of the German-speaking countries is either required or recommended.

A combined major includes a total of twelve courses, six of them in German: BC 3005 or BC 3006 and five literature courses taught in German, one of which may be BC 3061. At the completion of her program, a student submits an essay on a topic representative of the two fields combined in her major. A combined major is designed with the chairpersons of the two departments and with the approval of the Committee on Programs and Academic Standing.

# German

## REQUIREMENTS FOR THE MINOR

The minor in German requires five courses, German BC 3005 or BC 3006, BC 3011, and three additional literature courses taught in German, one of which may be BC 3061.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

#### **GER BC 1001x-GER BC 1002y. Elementary Full-Year Course.**

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Aural-oral exercises and intensive practice in pronunciation.—M. Shulman and Staff.

*Limited enrollment. Work in the language laboratory is required.*

*4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.*

*Section I M W F 9:00.*

*Section II M W F 10:00.*

*Section III M W F 12:00.*

**In addition each student must register in the Department for one of the following sections:**

*Section I Tu Th 9:00.*

*Section II Tu Th 10:00.*

*Section III Tu Th 12:00.*

#### **GER BC 1001y. Elementary Full-Year Course. Part I.**

Same as BC 1001x, but given in the Spring Term.—B. Linke.

*Limited enrollment. Work in the language laboratory is required.*

*4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed. M Tu W Th F 12:00.*

#### **GER BC 1002x. Elementary Full-Year Course. Part II.**

Same as BC 1002y, but given in the Autumn Term.—B. Linke.

*Limited enrollment. Work in the language laboratory is required.*

*4 points. M Tu W Th F 12:00.*

FOR ELEMENTARY AND INTERMEDIATE READING COURSES SEE GERMAN BC 1007, BC 1208.

#### **GER BC 1203x. Intermediate Course I.**

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication.—R. Ayre and G. Sakrawa.

*Prerequisite: BC 1002 or the equivalent. Limited enrollment.*

*3 points.*

*Section I*

*M W F 10:00.*

*Section II*

*M W F 1:10.*

#### **GER BC 1203y. Intermediate Course I.**

Same as BC 1203x, but given in the Spring Term.—M. Shulman.

*Prerequisite: BC 1002 or the equivalent. Limited enrollment.*

*3 points. M W F 10:00.*

#### **GER BC 1204y. Intermediate Course II.**

German language based on a variety of literary texts: several short stories, one play, one short novel. Assignments include compositions in German and exercises of specific grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.—B. Bradley and G. Sakrawa.

*Prerequisite: BC 1203 or the equivalent. Limited enrollment.*

*3 points.*

*Section I*

*M W F 10:00.*

*Section II*

*M W F 1:10.*

#### **GER BC 1204x. Intermediate Course II.**

Same as BC 1204y, but given in the Autumn Term.—B. Bradley.

*Prerequisite: BC 1203 or the equivalent. Limited enrollment.*

*3 points. M W F 10:00.*

#### **BC 3005x, BC 3006y. Advanced Oral German and Composition.**

Autumn Term: Discussions of current events and issues based on German broadcasts and on items in the German press; weekly short papers; emphasis on idiomatic usage and on vocabulary building. Spring Term: Exposure in the language laboratory to voices of various native speakers on tape reading original material of topical variety. Advanced exercises in syntax and style; oral reports.—G. Sakrawa.

*3 points. M W F 12:00.*

#### **GER BC 1007x. Elementary German: Intensive Reading.**

Comprehension of written German. Extensive reading of simple expository texts, fundamental vocabulary, and the essentials of grammar and syntax.—M. Shulman.

*No previous knowledge of German is required. This course is not open to students who have completed German BC 1001-BC 1002.*

*3 points. M W F 9:00.*



## **GER BC 1208y. Intermediate German: Intensive Reading.**

Comprehension of written German. Reading of materials in areas of specialization in the humanities, social sciences, and the natural sciences; attention is given to the structural forms encountered when translating German scholarly texts.—M. Shulman.

*Prerequisite: BC 1007 or the equivalent.*

*3 points. M W F 9:00.*

## **LITERATURE COURSES**

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

For courses conducted in English, see GERMAN LITERATURE IN TRANSLATION, BC 3055 and BC 3056.

## **GER BC 3011x. Introduction to German Literature and Civilization.**

Survey of German literature and civilization from the Age of the Enlightenment to the twentieth century. Readings are selected from literary works representative of each period, and from various literary genres. Lectures on the intellectual and historical background.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent.*

*3 points. M W F 11:00. (II)*

## **GER BC 3014y. German Literature around the Turn of the Twentieth Century.**

One of the richest and most diversified periods in the history of German literature: plays, prose writings, and poems by Hauptmann, Hofmannsthal, Kaiser, Hesse, Mann, Rilke, and Kafka.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent. Offered in alternate years. Not offered in 1984-85.*

*3 points. (II)*

## **GER BC 3015x. Goethe.**

Major works of Goethe in the context of his life and his times: *Werther*, *Iphigenie*, *Tasso*, *Wahlverwandtschaften* and *Faust I*.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent. Offered in alternate years. Not offered in 1984-85.*

*3 points. (II)*

## **GER BC 3016y. The Romantic Movement in Germany 1790-1820.**

Theory of Romantic poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time. Movement's impact on scholarship and translation, and on similar movements abroad. Poetic works by Tieck, Novalis, Hölderlin, Kleist, Hoffmann, and Eichendorff.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent. Offered every three years. Not offered in 1984-85.*

*3 points. (II)*

## **GER BC 3018x. Schiller**

Schiller's dramas and some of his philosophical essays.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent. Offered in alternate years.*

*3 points. Tu Th 10:35-11:50. (II)*

## **GER BC 3025y. The Age of the Bourgeoisie in German Literature.**

Drama, poetry, and prose by Heine, Grillparzer, Büchner, Wagner, Keller, Storm, Stifter, and Fontane.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent. Offered every three years.*

*3 points. Tu Th 10:35-11:50. (II)*

## **GER BC 3026y. Modern German Theater.**

Brecht and well-known playwrights of the post-war period: Kipphardt, Frisch, Weiss, Dürrenmatt, Walser, and others. The plays are approached from the perspective of drama on the stage in direct contact with a public audience, and the stage as a forum used to raise consciousness among the public.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent. Offered in alternate years.*

*3 points. M W F 11:00. (II)*

## **GER BC 3028x. Contemporary German Prose Fiction.**

Selected works by post-war writers from West and East Germany, Austria and Switzerland: Böll, Bachmann, Frisch, Grass, Christa Wolf, Handke, and others. Analyses and discussions concentrate on predominant themes, on differences in narrative techniques, and on the effectiveness of fictional writings in exploring or exposing problems of individual and general concern.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent. Offered in alternate years. Not offered in 1984-85.*

*3 points. (II)*

## **GER BC 3036x. Goethe's Faust.**

Intensive study of Goethe's *Faust*, Part I and II.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent. Not offered regularly. Not offered in 1984-85.*

*3 points. (II)*

## **GER BC 3045y. Literary Traditions in the Time of the Medieval Empire.**

Introduction to the feudal age and to German literature from about 1200 to about 1400: *Parzival*, *Tristan*, and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.

*Prerequisite: BC 1204 or the equivalent. Offered every three years. Not offered in 1984-85.*

*3 points. (II)*

# German

## **GER BC 3046y. German Literature in the Eighteenth Century.**

An introduction to the Enlightenment and Storm and Stress through works by Lessing, Wieland, Herder, the young Goethe, and the young Schiller.—G. Sakrawa.

*Prerequisite: BC 1204 or the equivalent.*

*Offered in alternate years. Not offered in 1984-85.*  
3 points. (II)

## **GER BC 3061x. Seminar. Rainer Maria Rilke.**

Selections from Rilke's poetry and prose in relation to his experiences in Prague, Italy, Russia, and France. The importance of the fine arts for his poetry. The symbolism of his poetic discourse.—B. Bradley.

*Prerequisite: BC 1204 or the equivalent. Offered in alternate years.*

4 points. M 2:10-4:00.

## **GER BC 3062y. Senior Essay.**

The topic must be related to one of the literature courses that the student has completed in the

department.—B. Bradley and G. Sakrawa.

*Open to senior majors. Permission of the instructor required.*

3 points. *Regular consultations with the instructor at hours to be arranged.*

## **GERMAN LITERATURE IN TRANSLATION**

### **GER BC 3055x. Major Works of German Literature.**

Major literary works of the Middle Ages, the Enlightenment, Classicism, Romanticism and 19th century Realism.—R. Ayre.

*Offered in alternate years. Not offered in 1984-85.*  
3 points.

### **GER BC 3056y. Modern German Literature.**

English translations of selected novels and plays by representative writers of the 20th century; Kafka, Mann, Seghers, Brecht, Grass, Böll, Frisch, and Handke.—B. Bradley.

*Offered in alternate years. Not offered in 1984-85.*  
3 points.





# Health and Society

*Office: 410 A Milbank Hall*

*Telephone: 280-2868, 5417*

The Health and Society Program is supervised by an Executive Committee:

**Samuel R. Milbank Associate Professor of Health and Society**

Nicholas Rango

**Professor of Sociology**

Bernard Barber

**Professor of Psychology**

Rae Silver

**Professor of Medicine**

Andre Cournand<sup>1</sup>

**Professor of Physics**

Richard Friedberg

**A. Barton Hepburn Professor of Economics**

Eli Ginzberg (Chairman)

**University Professor**

Robert K. Merton<sup>1</sup>

**Vice President for Academic Affairs and Dean of the Faculty**

Charles S. Olton

**Professor of Public Health, and Obstetrics and Gynecology**

Allan Rosenfield

**Professor of Public Health (Epidemiology)**

Zena Stein

Officers of the College and University participating in Health and Society:

**A. Barton Hepburn Professor of Economics**

Eli Ginzberg

**Brookdale Professor of Gerontology**

Abraham Monk

**Samuel R. Milbank Assistant Professor of Health and Society**

Nicholas Rango (Program Director)

**Lecturers in Health and Society**

Richard Neugebauer, Theresa Rogers

<sup>1</sup>Emeritus

Health and Society is an interdisciplinary program created to address historical and contemporary issues in the field of health care from health science, social science, and humanistic perspectives. The Program has three objectives: to introduce the logical processes for establishing causes in the health sciences, to identify the limits of scientific knowledge in the health sciences, and to develop decision-making skills under conditions of scientific uncertainty. The Program applies this approach to undergraduate education by developing an interdisciplinary curriculum that focuses upon the distinction between and interconnection of scientific fact and value judgments.

Acquiring the substantive background and the methodological skills necessary to address problems in areas which do not adhere to traditional academic disciplines will prepare students for a variety of post-graduate options: graduate study in the social science or humanities, professional study in medicine and allied health areas, and careers in public health and health administration. Equally important, the Health and Society Program seeks to satisfy the intellectual needs of students not planning graduate study, but concerned about the social context of health and health care.

# Health and Society

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor:

Health and Society BC1001

or

Health and Society BC1004

Philosophy V3720

One of the following courses:

Anthropology V3128

Sociology V3228

Economics W4460

Health and Society BC1008

Geography W4039

Health and Society BC1005y

Two of the following courses:

Health and Society BC1006

Health and Society BC1007

Health and Society BC1010

Health and Society BC3011

Health and Society BC3013

*Fact and Value in the Health Sciences*

*Health, Illness, and the Social Environment*

*Ethics and Medicine*

*Medical Anthropology*

*Sociology of Medicine*

*Health Economics*

*Political Economy of Health Care*

*Medical Geography*

*Medical Care in Twentieth Century America*

*Social Gerontology*

*History of Mental Illness and Its Treatment*

*The Disabled in Contemporary Society*

*Institutionalization*

*Women, Health, and Health Care*

Students interested in this minor should consult with the Health & Society Program as early as possible in their academic program. Those who wish to coordinate the Health and Society minor with work in their major should seek the advice and approval of both departments. Such coordination with the major is not necessary to fulfill the above requirements for the minor in Health and Society.

## COURSES OF INSTRUCTION

### HEA BC 1001y. Fact and Value in the Health Sciences.

A historical and cultural overview of medicine and public health; the societal context of health and health care. Problems defining and assessing states of well-being and illness, the logic of scientific inquiry in the health sciences, fundamental concepts of public health biology, bases of clinical decision-making, values and value conflicts in clinical decision-making, and the imperatives of decision-making under conditions of scientific and clinical uncertainty.— N. Rango.

*Background in science not required. Offered in alternate years. Not offered in 1984-85.*

3 points.

(V)

### HEA BC 1004y. Health, Illness, and the Social Environment.

Examination of how the social environment influences an individual's state of health. Emphasis on two kinds of stress: social and illness-induced, the former referring to stressful life experiences, the latter to the psychological and emotional consequences of illness. Special attention to the doctor-patient relationship in the management of stress.— N. Rango.

*Not offered in 1984-85.*

3 points.

(V)

### HEA BC 1005y. Medical Care in Twentieth Century America.

A historical and institutional analysis of the American experience in the delivery of medical care. The focus will be on critical trends during this century that have influenced the organization, control, and content of medical services today. These trends include the reform of medical education and of allied health professions, the rise of specialization, the increasing sophistication of costly medical technologies, the imbalance between personal medical services and public health concerns, and the rise of a non-professional health care system.— Theresa Rogers.

3 points. M W 1:10-2.25.

(V)

### HEA BC 1006x. Social Gerontology.

The later stages of the human life cycle and current policies and programs for the aged: demographic changes in American society; the biological, clinical, social, psychological, and economic aspects of the aging process; problems affecting the aged; and the socially organized response to the needs of the elderly. Field activities at long-term care institutions and multi-service centers.—N. Rango with A. Monk, Brookdale Institute.

*Not offered in 1984-85.*

3 points.

(V)



## **HEA BC 1007x. History of Mental Illness and Its Treatment.**

The history of psychiatric thought and treatment and the changing role of the mentally ill in Western societies. Clinical and epidemiological aspects of mental disorders, and diagnostic problems and ethical issues in psychiatric treatment. The effect of social and economic change on the prevalence, theory, and treatment of mental disorders.—R. Neugebauer.

*Recommended: Health and Society 1.*

*3 points. M W 4:10-5:25.*

(V)

## **HEA BC 1008y. Political Economy of Health Care.**

Relation of medicine and society with particular reference to the organizational structure of the medical sector. Distribution of economic resources and changing political alignments; need for health reform; critical review of key proposals for new services. The interrelationship of economic, professional, and social factors in the creation and implementation of health policy.—E. Ginzberg.

*Prerequisite: One year's work in social science.*

*Enrollment limited to 35 upperclassmen. Permission of the instructor required for sophomores.*

*3 points. Tu 11:00-1:00.*

(V)

## **HEA BC 1010y. The Disabled in Contemporary Society.**

The impact of disability on the individual, the family, and the institutions of contemporary American society. The relationship of disability to other economic, political, and ethical issues. Texts in-

clude autobiographical and literary accounts as well as clinical, psychological, social science, legal, and public policy sources.—A. Asch.

*3 points. M W 4:10-5:25.*

(V)

## **HEA BC 3011x. Institutionalization: Individual, Family, and Professional Perspectives.**

Long-term institutionalization analyzed from three perspectives: individual patient, family, and professional. Conflicts of interest and ethical issues inherent in the decision to institutionalize or deinstitutionalize. Contemporary American institutions, including mental hospitals, homes for emotionally disturbed children, homes for the retarded, nursing homes, and hospices.—N. Rango.

*Prerequisite: BC 1001 or BC 1004. Enrollment limited to 15 students. Offered in alternate years. Not offered in 1984-85.*

*4 points.*

(V)

## **HEA BC 3013x. Women, Health, and Health Care.**

Changing perspectives of women in American society and the consequences of these changes for public policy, health education, and research priorities. Readings from clinical, social science, historical and psychological sources provide a context for study of the evolving relationship between women and the medical sector.—T. Rogers.

*Permission of the instructor required. Enrollment limited to 16 upperclassmen.*

*4 points. Tu 4:10-6:00.*

(V)



# History

Office: 418 Lehman Hall

Telephone: 280-2159

## Professors

Robert A. McCaughey (Chairman), Suzanne F. Wemple

## Associate Professors

Charles S. Olton, Rosalind N. Rosenberg

## Assistant Professors

Mark C. Carnes, William C. McNeil, Jeffrey Merrick, Janet A. Riesman

Other officers of the University offering courses listed below:

## Professors

Roger S. Bagnall,<sup>1</sup> J. M. W. Bean, Stuart Bruchey, Richard Bulliet, Istvan Deak,<sup>2</sup> Ainslie Embree, Eric Foner, John A. Garraty,<sup>2</sup> Nina Garsoian, Henry F. Graff,<sup>1</sup> Leopold H. Haimson, William V. Harris, Graham W. Irwin, Kenneth Jackson, Herbert S. Klein, Stephen Koss, Hollis R. Lynch, Edward Malefakis,<sup>1</sup> Eric L. McKittrick, Walter Metzger, John H. Mundy, Robert O. Paxton, Marc Raeff, Eugene Rice, William R. Roff, David J. Rothman, James P. Shenton, J. W. Smit, Morton Smith,<sup>3</sup> Fritz Stern, Alden T. Vaughan, S. Razl Wastl, Isser Woloch, Marcia Wright, Yosef H. Yerushalmi

## Associate Professors

Carol Gluck,<sup>3</sup> Nancy Stepan

## Assistant Professors

Elizabeth Blackmar, Lawrence W. Dickey, Michael Hanagan, John Heuhnergard, Robert Moeller,<sup>3</sup> Rhoads Murphey, Michael Stanislawski, Hava Tirosh-Rothschild, Anne Withington

## Visiting Professors and Lecturers as Announced

<sup>1</sup>Absent on leave, 1984-85

<sup>2</sup>Absent on leave, Autumn Term

<sup>3</sup>Absent on leave, Spring Term

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the narrative record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various kinds of evidence from primary sources. The study of history, which encourages habits of critical thinking and careful analysis, should be of interest and use not only to those who intend to pursue advanced degrees in the field, but to all undergraduates intent upon expanding their cultural horizons and enhancing their analytic skills.

Barnard history courses are numbered according to the following scheme of classification:

10xx-level introductory lectures

30xx-level advanced lectures

34xx-level seminars

37xx-level senior research seminars.

Lectures are defined more broadly—chronologically, geographically, and/or thematically—than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students are expected to secure the permission of instructors for admission to seminars.

Students should consult the Columbia College catalogue for full descriptions of Columbia lectures and seminars, and regulations concerning enrollment in these courses. Application



forms for Columbia seminars are available in 523 Fayerweather and should be submitted to instructors prior to the registration period.

Students with a score of 5 on the Advanced Placement examination will receive six points credit; students with a score of 4 will receive three points credit.

## REQUIREMENTS FOR THE MAJOR

Students who intend to major in history are urged to consult an adviser in the department at the beginning of the sophomore year in order to plan their academic programs for the remaining three years in college.

The history major requires a minimum of eleven courses distributed in the following manner:

- 1) At least six courses in an area of concentration. Two of the six courses must be the senior research seminar in which students write a senior essay. While majors usually concentrate in European or American history, they may, with the approval of the chair, concentrate in any field of interest, such as ancient, medieval, Jewish, Oriental, African, cultural, or urban history.
- 2) At least three history courses outside the field of concentration.
- 3) At least two seminars, which may be distributed among any of the nine courses taken in addition to the senior research seminar.

Two of the eleven courses may be taken in other departments, provided that such courses are closely related to the field of concentration and approved by the major adviser.

Certain Columbia graduate ("G") courses are open to qualified majors with the approval of the Barnard chair and the Columbia instructor. These courses are described in the bulletin of the Graduate School of Arts and Sciences.

The senior research seminar represents the culmination of the undergraduate history major. It offers students the opportunity to discuss the nature of history as a discipline and to complete their work in the department through independent investigation of topics of their choice. Students are expected to consult with major advisers concerning tentative topics by the end of the junior year. During the first semester of the senior year, students meet to discuss common readings, while pursuing their own topics. They present reports on their work at sessions to which the American/European members of the department are invited. At the end of the first semester students submit a detailed prospectus, defining the problem under investigation, outlining the research involved, discussing the primary and secondary sources consulted. During the second semester students complete their research and write their essays, of article length (30-50 pages).

## REQUIREMENTS FOR THE MINOR

Five courses are required for a minor in history, four in a concentration, and one outside the concentration. One of the five must be a seminar.

## COURSES OF INSTRUCTION

### LECTURES, ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

#### **HIS BC 3003x. The Early Middle Ages: 300 to 1050.**

Fusion of Graeco-Roman, Judeo-Christian and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Ottonian empires.—S. Wemple.

*3 points. Tu Th 10:35-11:50. (IV)*

#### **HIS BC 3004y. The High Middle Ages: 1050-1450.**

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—S. Wemple.

*3 points. Tu Th 10:35-11:50. (IV)*

#### **HIS BC 1011x. Main Currents of the Modern European World: Renaissance to the French Revolution.**

Introduction to the history of early modern Europe, including the Renaissance, Reformation and Counter-Reformation, witchcraft, science, absolutism, Enlightenment.—J. Merrick.

*3 points. M W F 11:00-11:50. (IV)*

# History

## **HIS BC 1012y. Main Currents of the Modern European World: The French Revolution to Today.**

French Revolution, nineteenth-century industrial revolutions, romanticism, liberalism, and twentieth-century wars, revolutions, dictatorships, and aspirations.—W. McNeil.

3 points. *M W F 11:00-11:50.* (IV)

## **HIS BC 3023y. Europe 1660-1789.**

Political, economic, social, religious, and cultural history of Europe from the Restoration in England to the Revolution in France.—J. Merrick.

3 points. *M W F 11:00. Two lectures, one discussion.* (IV)

## **HIS W 4275y. European International Relations, 1914 to the Present.**

From the outbreak of the First World War to the Cold War and beyond, the relationship between internal social, economic, and political structures of nation states as they influence the formation of foreign policy is explored.—W. McNeil.

3 points. *M W 2:40-3:55.* (IV)

## **HIS W 1001x. Ancient History of Egypt and Eastern Mediterranean.**

Instructor to be announced.

3 points. *Hours to be arranged.* (IV)

## **HIS W 1002y. Ancient History of Mesopotamia.**

Instructor to be announced.

3 points. *Hours to be arranged.* (IV)

## **HIS W 1005x. Greece, Israel and the Near East, 1200-336 B.C.**

M. Smith.

3 points. *Tu Th 5:30-6:45, and a third hour to be arranged.* (IV)

## **HIS W 1006y. The Ancient World: The Roman and Hellenistic Periods.**

Instructor to be announced.

3 points. *M W 2:40-3:55.* (IV)

## **HIS W 1150x, HIS W 1151y. Introduction to the History of Europe: From the Renaissance to the Present Day.**

J. Mundy.

3 points. *M W 6:10-7:00, plus discussion sections to be arranged.* (IV)

## **HIS W 3204x. The Age of Revolutions, 1789-1870.**

I. Woloch.

3 points. *M W 11:00-12:15.* (IV)

## **HIS W 3205x. European Politics and Society, 1870-1919.**

F. Stern.

3 points. *Tu Th 2:40-3:55.* (IV)

## **HIS W 3206y. European Politics and Society since 1919.**

F. Stern.

3 points. *Tu Th 2:40-3:55.* (IV)

## **HIS W 3210x. Biology and Society since the 18th Century.**

N. Stepan.

3 points. *Tu Th 1:10-2:25.* (IV)

## **HIS W 3212x. The Expansion of Europe, 1200-1700.**

G. Irwin.

3 points. *M W 2:40-3:55.* (IV)

## **HIS 3215x. European Intellectual History during the Enlightenment, 1640-1790.**

L. Dickey.

3 points. *M W 1:10-2:25.* (IV)

## **HIS W 3223x. The Political Culture of Modern Britain, 1760 to the Present.**

S. Koss.

3 points. *M W 1:10-2:25.* (IV)

## **HIS W 3225y. The Italian Renaissance.**

E. F. Rice.

3 points. *M W F 10:00-10:50.* (IV)

## **HIS W 3288x. England, 500-1450.**

J. M. W. Bean.

3 points. *Tu Th 1:10-2:25.* (IV)

## **HIS W 3289y. England, 1450-1688.**

J. M. W. Bean.

3 points. *Tu Th 1:10-2:25.* (IV)

## **HIS W 3310x. History of Russia, 1613-1855.**

M. Raeff.

3 points. *Tu Th 1:10-2:25.* (IV)

## **HIS W 3311x. History of Russia, 1855-1921.**

J. Sanders.

3 points. *Tu Th 6:10-7:25.* (IV)

## **HIS W 3361y. History of Soviet Russia.**

Instructor to be announced.

3 points. *Hours to be arranged.* (IV)

## **HIS W 3531x History of the Jews in Eastern Europe from the Russian Revolution to the Present.**

M. Stanislawski.

3 points. *Tu Th 9:10-10:25.* (IV)



**HIS W 3537x. Messianic Movements and Ideas in Jewish History, I: From Ancient Israel to the Expulsion from Spain.**

Y. H. Yerushalmi.  
3 points. Tu Th 10:35-12:00. (IV)

**HIS W 3538y. Messianic Movements and Ideas in Jewish History, II: From the Spanish Expulsion to Modern Times.**

Y. H. Yerushalmi.  
3 points. Tu Th 10:35-12:00. (IV)

**HIS W 3539x. Religion and Philosophy in Medieval Judaism, Christianity, and Islam.**

H. Tirosch-Rothschild.  
3 points. M W 1:10-2:25. (IV)

**HIS G 4010x. Roman Imperialism.**

W. V. Harris.  
3 points. Tu 11:00-12:50. (IV)

**HIS W 4157y. European Lefts Since 1830.**

R. O. Paxton.  
3 points. M W 4:10-5:25. (IV)

**HIS W 4251y. Historiography and Theories of History.**

J. W. Smit.  
3 points. Tu Th 10:35-11:50. (IV)

**HIS W 4319y. Germany and East Central Europe in Modern Times, 1914-1956.**

I. Deak.  
3 points. M W 11:00-12:15. (IV)

**HIS W 4510x. History of Zionism.**

R. Hertzberg.  
3 points. F 11:00-1:00, plus third hour to be arranged. (IV)

**SEMINARS, ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY**

**HIS BC 3406x. The History of Women in the High Middle Ages.**

Origins of the legal and social position of women in medieval society as reflected in patristic writings, and Roman and Germanic codes. Contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine, and literature.—S. Wemple.  
*Prerequisite: BC 3003 or BC 3009 or the equivalent.*  
*Permission of the instructor required.*  
4 points. Tu 2:10-4:00. (IV)

**HIS BC 3432y. Women in Early Modern Europe.**

Women in European society from the Renaissance and Reformation to the Enlightenment and

French Revolution. Readings include materials on witchcraft, family, sexuality, and criminality.—J. Merrick.

*Enrollment limited to 15 students.*

*Prerequisite: Background in European history (e.g., BC 1011 or equivalent) and permission of the instructor required.*

4 points. M 2:10-4:00. (IV)

**HIS BC 3791x-HIS BC 3792y. Senior Research Seminar in European History.**

Students conduct individual research, in consultation with the instructor, on subjects in European thought and society. Results of each project to be presented in the form of the senior essay.—S. Wemple, J. Merrick, and staff.

*Permission of the instructor required.*

4 points. W 4:10-6:00. (IV)

**HIS W 3579x. Greek Historiography.**

W. V. Harris.  
*Permission of the instructor required.*  
4 points. Tu Th 2:10-4:00. (IV)

**HIS W 3580y. Roman Historiography.**

W. V. Harris.  
*Permission of the instructor required.*  
4 points. W 11:00-12:50. (IV)

**HIS W 3853x. Fascism.**

R. O. Paxton.  
*Permission of the instructor required.*  
4 points. M 4:10-6:00. (IV)

**HIS W 3892x. The Crusades.**

J. M. W. Bean.  
*Permission of the instructor required.*  
4 points. Tu 4:10-6:00. (IV)

**HIS W 3909y. Jewish Migrations, 1848 to the Present.**

M. Stanislawski.  
*Permission of the instructor required.*  
4 points. Tu 2:10-4:00. (IV)

**HIS W 3912x. The Ideological and Political Development of Russian Jewry.**

M. Stanislawski.  
*Permission of the instructor required.*  
4 points. Tu 2:10-4:00. (IV)

**HIS W 3922y. The French Revolution.**

I. Woloch.  
*Permission of the instructor required.*  
4 points. M 2:10-4:00. (IV)

**HIS W 3927x. Erasmus and His World.**

E. Rice and M. Rudnitski.  
*Permission of the instructor required.*  
4 points. W 4:10-6:00. (IV)

# History

## **HIS W 3954x. War and Revolution in Europe, 1914-1923: Comparative Studies of Russia, Germany, and Italy.**

R. Moeller.

*Permission of the instructor required.*

4 points. M 4:10-6:00. (IV)

## **HIS W 3966y. Russian Social and Political Thought, 1689-1924.**

M. Raeff.

*Permission of the instructor required.*

4 points. Th 4:10-6:00. (IV)

## **HIS W 3967y. Seminar on Russian Revolutions, 1917-1929.**

J. Sanders.

*Permission of the instructor required.*

4 points. W 6:10-8:00. (IV)

## **HIS W 3972x. Seminar on British Imperialism, 1870-1914.**

W. R. Roff.

*Permission of the instructor required.*

4 points. Tu 4:10-6:00. (IV)

## **HIS W 3981y. Darwin and the Darwinian Revolution.**

N. Stepan.

*Permission of the instructor required.*

4 points. Tu 6:10-8:00. (IV)

## **HIS W 3982y. Britain in Two World Wars.**

S. Koss.

*Permission of the instructor required.*

4 points. Tu 2:10-4:00. (IV)

## **HIS W 3985y. Aspects of World History.**

E. Malefakis.

*Permission of the instructor required.*

4 points. W 2:10-4:00. (IV)

## **HIS W 3987x. Women in Industrial Society in Europe, from 1750.**

R. Moeller.

*Permission of the instructor required.*

4 points. W 4:10-6:00. (IV)

## **HIS W 3993x. Mass Protest and Social Revolution in Modern Europe, 1750 to the Present.**

M. Hanagan.

*Permission of the instructor required.*

4 points. Hours to be arranged. (IV)

## **HIS W 3995y. Russian Society and Politics, the Intelligentsia, Images and Realities.**

L. Haimson.

*Permission of the instructor required.*

4 points. Tu 4:10-6:00. (IV)

## LECTURES, UNITED STATES HISTORY

### **HIS BC 1051x. Survey of American Civilization to the Civil War.**

The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861.—R. McCaughey.

3 points. M W F 10:00. (IV)

### **HIS BC 1052y. Survey of American Civilization since the Civil War.**

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War II developments.—R. Rosenberg

3 points. M W F 11:00-11:50. (IV)

### **HIS BC 3066x. America in the Gilded Age.**

The consolidation and diffusion of middle class values and institutions; the rise of the businessman; "Victorian" families and gender roles; the politics of complacency, the voices of dissent, and the path to empire.—M. Carnes.

3 points. M W 2:40-3:55. (IV)

### **HIS BC 3067y. America since 1945.**

A consideration of the cold war, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs.—M. Carnes.

3 points. M W 2:40-3:55. (IV)

### **HIS BC 3082x. History of Women in America since 1890.**

Economic transformation and educational expansion; reformers and suffragists; beyond suffrage; women in the professions; the feminine mystique; the new feminism.—R. Rosenberg.

3 points. Tu Th 10:35-11:50. (IV)

### **HIS W 1109x. Main Currents in American History, 1492-1877.**

E. McKittrick.

3 points. Tu Th 5:40-6:30. (IV)

### **HIS W 1110y. Main Currents in American History since 1877.**

Instructor to be announced.

3 points. Tu Th 5:40-6:30. (IV)

### **HIS W 3001x. Afro-American History to 1900.**

E. Foner.

3 points. M W 11:00-12:15. (IV)



**HIS W 3002y. Afro-American History since 1900.**

H. Lynch.  
3 points. M W 1:10-2:25. (IV)

**HIS W 3115x. The History of Women in America.**

E. Blackmar.  
3 points. M W 6:10-7:25. (IV)

**HIS W 3121x. America in the Age of Jacksonian Democracy.**

J. P. Shenton.  
3 points. Tu Th 2:40-3:55. (IV)

**HIS W 3122y. America in the Era of Disunion and Reunion.**

J. P. Shenton.  
3 points. Tu Th 2:40-3:55. (IV)

**HIS W 3133x. The United States in the 20th Century.**

W. Metzger.  
3 points. Tu Th 1:10-2:25. (IV)

**HIS W 3134y. The United States in the 20th Century.**

W. Metzger.  
3 points. Tu Th 1:10-2:25. (IV)

**HIS W 3640y. American Social History, I.**

E. Blackmar.  
3 points. M W 6:10-7:25. (IV)

**HIS W 3642y. The Radical Tradition in America.**

E. Foner.  
3 points. M W 11:00-12:15. (IV)

**HIS W 3644y. Ethnicity in America.**

J. P. Shenton.  
3 points. Tu Th 4:10-5:25. (IV)

**HIS W 4792x. American Economic History, 1607-1861.**

S. W. Bruchey.  
3 points. Tu Th 10:35-11:50. (IV)

**HIS W 4794y. Modern American Economic History since 1890.**

S. W. Bruchey.  
3 points. Tu Th 2:40-3:55. (IV)

**HIS W 4601x. American Beginnings, 1584-1763.**

A. T. Vaughan.  
3 points. Tu Th 10:35-11:50. (IV)

**HIS W 4603y. The American Revolution, 1763-1789.**

A. Withington.  
3 points. Tu Th 2:40-3:55. (IV)

**HIS W 4712x. History of the City of New York.**

K. T. Jackson.  
3 points. Tu Th 2:40-3:55. (IV)

**HIS W 4741y. Great Depression in Europe and America.**

J. Garraty.  
3 points. Tu Th 11:00-12:15. (IV)

**SEMINARS UNITED STATES HISTORY**

**HIS BC 3450y. History of Childhood in America.**

An examination of childhood (including adolescence) in various contexts: Puritan New England, slave plantations, nineteenth-century middle-class families, the 1960s, etc. Emphasis on primary sources, including children's literature and child-rearing manuals, and on the role of church, school, workplace, and peers in the process of acculturation.—M. Carnes.

*Enrollment limited to 20 students.*  
*Permission of the instructor required.*  
4 points. W 4:10-6:00. (IV)

**HIS BC 3451x. Law and American Society.**

Law in colonial America; contract and property in the New Republic; Tort Law and the Rise of Negligence; women and slaves; the science of law; the death of contract; the legal profession.—R. Rosenberg.

4 points. W 2:10-4:00. (IV)

**HIS BC 3455x. Reckoning with the Past: History, Historians, and the Computer.**

A consideration of the impact of quantitative methods upon American historical inquiry. Readings include classic interpretive accounts of aspects of the American past and revisionist studies utilizing quantitative analysis. Introduction to the use of the DEC 20 computer and microcomputers will be an integrated part of the course.—R. McCaughey and R. Giordano.

*Permission of the instructor required.*  
4 points. Hours to be arranged. (IV)

**HIS BC 3457. Culture and Society in Antebellum America, 1790-1850.**

The impact of democratization in the years after the American Revolution on politics, political economy, art, literature, science, and religion. The emergence of an evangelical, sentimental, reform-minded, democratic culture by the 1850's.—J. Riesman.

*Permission of the instructor required.*  
3 points. M W 2:40-3:55. (IV)

# History

## **HIS BC 3793x-HIS BC 3794y. Senior Research Seminar in American History.**

Individual research in diverse aspects of American history and presentation of results in seminar in the form of the senior essay.—J. Riesman and staff.  
*Open to senior majors; others by written permission of the instructor.*

*Permission of the instructor required.*

4 points. Tu 4:10-6:00. (IV)

## **HIS W 3832x. Military History and Policy.**

K. T. Jackson.

*Permission of the instructor required.*

4 points. Tu 6:10-8:00. (IV)

## **HIS W 3891y. Women in 20th-Century America.**

E. Blackmar.

*Permission of the instructor required.*

4 points. Tu 4:10-6:00. (IV)

## **HIS W 3893y. The Economic History of the American South to 1860.**

P. Coclanis.

*Permission of the instructor required.*

4 points. Hours to be arranged. (IV)

## **HIS W 3895y. Jeffersonian America, 1801-1828.**

E. McKittrick.

*Permission of the instructor required.*

4 points. Hours to be arranged. (IV)

## **HIS W 3896x. The Founding Fathers.**

A. F. Withington.

*Permission of the instructor required.*

4 points. Th 11:00-1:00. (IV)

## **HIS W 3901x. Recent American Social Thought.**

W. Metzger.

*Permission of the instructor required.*

4 points. Th 4:10-6:00. (IV)

## **HIS W 3923y. The Coming of the Civil War.**

E. Foner.

*Permission of the instructor required.*

4 points. M 4:10-6:00. (IV)

## **HIS W 3929x. Patterns of Culture in 20th-Century America, 1900-1945.**

B. Tischler.

*Permission of the instructor required.*

4 points. Tu 2:10-4:00. (IV)

## **HIS W 3930y. Government and Economy Between the Wars.**

S. W. Bruchey.

*Permission of the instructor required.*

4 points. Tu 11:00-12:50. (IV)

## **HIS W 3942x. The History of American Culture since World War II.**

E. Blackmar.

*Permission of the instructor required.*

4 points. Tu 4:10-6:00. (IV)

## **HIS W 3950x. World War II.**

J. P. Shenton.

*Permission of the instructor required.*

4 points. M 1:10-3:00. (IV)

## **LECTURES, LATIN AMERICAN AND NON-WESTERN HISTORY**

### **HIS W 1410y. Main Currents in Middle Eastern History.**

R. W. Bulliet.

3 points. M W F 10:00-10:50. (IV)

### **HIS W 3005y. Main Currents in African History.**

G. Irwin.

3 points. M W 2:40-3:55. (IV)

### **HIS W 4422x. The History of Islamic Society, from Muhammad to the Mongol Invasion.**

R. W. Bulliet.

3 points. Tu Th 4:10-5:25. (IV)

### **HIS W 4760x. A History of Modern Nigeria.**

H. R. Lynch.

3 points. M W 1:10-2:25. (IV)

### **HIS W 4779x. History of Latin American Civilization, I.**

H. Klein.

3 points. Tu Th 2:40-3:55. (IV)

### **HIS W 4780y. History of Latin American Civilization, II.**

N. Stepan.

3 points. Tu Th 1:10-2:25. (IV)

### **Chinese History CHH G 4815x. Introduction to the Civilization of China.**

H. H. A. Bielenstein.

3 points. M W 11:00-11:50. (IV)

### **Chinese History CHH G 4816y. Introduction to the Civilization of China.**

H. H. A. Bielenstein.

3 points. M W 11:00-11:50. (IV)

### **Chinese History CHH G 4831y. Topics in the Middle Period of Chinese History (Sung).**

R. Hymes.

3 points. Hours to be arranged. (IV)



**Chinese History CHH W 4835x. History of Modern China.**  
M. Zelin.  
*3 points. Tu Th 1:10-2:25. (IV)*

**HIS W 4905y. History of Modern South Africa.**  
M. Wright.  
*3 points. M W 11:00-12:15. (IV)*

**HIS W 4911x. History of Central Africa.**  
M. Wright.  
*3 points. M W 11:00-12:15. (IV)*

## SEMINARS, LATIN AMERICAN AND NON-WESTERN HISTORY

**HIS W 3948x. A History of the Caribbean in the 20th Century.**  
H. Lynch.  
*Permission of the instructor required.*  
*4 points. M 4:10-6:00. (IV)*

**HIS W 3902y. History of the Eurasian Steppe.**  
R. Murphey.  
*Permission of the instructor required.*  
*4 points. Th 2:10-4:00. (IV)*

**HIS G 4453x. Byzantine History.**  
N. G. Garsoian.  
*Permission of the instructor required.*  
*4 points. Tu 2:10-4:00. (IV)*

**HIS G 4454y. Byzantine History.**  
N. G. Garsoian.  
*Permission of the instructor required.*  
*4 points. Tu 2:10-4:00. (IV)*

**HIS W 4773y. The Middle East, 1700-1945.**  
R. W. Bulliet.  
*Permission of the instructor required.*  
*4 points. Tu Th 4:10-5:25. (IV)*

**History-Japanese HIJ W 3600x. World War II in American and Japanese History.**  
C. Gluck.  
*Permission of the instructor required.*  
*4 points. W 2:10-4:00. (IV)*

**HIS BC 3799x, HIS BC 3799y. Independent Research.**  
Staff.  
*4 points. Hours to be arranged.*

## OTHER OFFERINGS

Full descriptions of the following courses of interest to students in history can be found under the heading of the department or interdisciplinary program in which the course is offered. Credit towards the history major or fulfillment of history major requirements given only when course is taught by a member of the History department.

**American Studies AMS BC 3401x, AMS BC 3402y.**  
Seminar on American Culture and National Character.

**European Studies EUR BC 3352x. European Nation-State Building: France, Germany, and Italy.**

**East Asian EAS V 3310y. Rebellion and Revolution in Modern China.**

**Medieval and Renaissance Studies MRS BC 3080y. Myth and History: The Erotic and the Divine in Medieval France.**

**Oriental Civilizations-Middle East ORM V 3001x. Introduction to Major Topics in Asian Civilizations.**

**Religion REL V 3406y. Medieval Ecclesiastical History, 300-1450.**

**Urban Affairs UAF BC 3545x. Junior Colloquium on Urban Affairs.**

# Studies in the Humanities

Offices: 314 and 321 Milbank Hall

Telephone: 280-8312

Studies in the Humanities is coordinated by a Committee from various departments in the Humanities:

**Professor of French**  
Serge Gavronsky (Co-chairman)

**Professor of English**  
Remington Patterson

**Professor of Italian**  
Maristella Lorch

**Professor of Oriental Studies**  
Barbara Stoler Miller (Co-chairman)

**Professor of Philosophy**  
Mary Mothersill

**Professor of Russian**  
Richard G. Gustafson

The offerings in Studies in the Humanities are designed to permit students to broaden their knowledge of humanistic traditions while complementing and enriching the specialization inherent in a major program. Readings in the Humanities courses, as well as Humanities C 1001, C 1002, may be used to fulfill distribution requirements.

Students may neither major nor minor in the Humanities.

## COURSES OF INSTRUCTION

**HUM V 3003x-HUM V 3004y. Readings in European and American Literature and Philosophy of the Nineteenth and Twentieth Centuries.**

Disintegration of traditional canons in ethics and aesthetics and the attempt to reestablish values in a world where their justification has become increasingly individual or relative. Works by Hegel, Kleist, Marx, Baudelaire, Kierkegaard, Flaubert, Feuerbach, Tolstoy, Dostoevsky, and Nietzsche read in the first semester, and in the second, by James, Mann, Proust, Joyce, Yeats, Eliot, Woolf, Faulkner, Kafka, Sartre, Robbe-Grillet and García Márquez.—x: M. Kurrik; y: K.-L. Selig.

*Prerequisite: A grade of B or better in Humanities C 1001-C 1002 or permission of the instructor.*  
3 points. M W F 1:10. (III)

**HUM BC 3201x. Colloquium in the Humanities:**  
**Tragedy and Transcendence: Greek and Sanskrit Drama.**

Analysis of a group of Greek and Sanskrit dramas in terms of comparative themes, mythology, and poetics. Special emphasis on issues of recognition and transformation through the experience of drama. Works of Sophocles, Euripides, Aeschylus, Menander, Aristotle, Kalidasa, Bhasa, Bhavabhuti,

Sudraka, Bhatta Narayana, Bharata, and Dhananjaya.—B. Miller and H. Bacon.  
*Sophomore standing. Not offered in 1984-85.*  
4 points. Hours to be arranged. (III)

**HUM BC 3203y. Colloquium in the Humanities:**  
**Emotion and Action: A Comparative Study of Eastern and Western Traditions.**  
An analysis of representative Chinese and Western philosophical texts relating to the nature and expression of emotion and the role of feeling in moral conduct and the good life.—M. Mothersill and I. Bloom.  
*Sophomore standing. Not offered in 1984-85.*  
4 points. (III)

**HUM BC 3498y. Seminar: Concepts of Evil and Sacrifice. Literary and Religious Interpretations.**  
Study of the relation between the themes of evil and sacrifice in selected literary and religious works. Special attention to comparative definitions of evil and sacrifice in Eastern and Western traditions, primarily Hinduism and Christianity. Consideration of the role of sacrifice in purging evil; sacrifice as individual act and social rite. Readings will include Biblical texts; Sophocles, *Oedipus Rex*; Ricoeur, *The Symbolism of Evil*; Conrad, *Heart of*



# Studies in the Humanities

*Darkness*; Endo, *Silence*; Rushdie, *Shame*. Guest lecturers.—M. Harran.

*Enrollment by permission of the instructor.*  
4 points. Tu 4:10-6:00. (III)

The following courses represent a selection of departmental offerings that focus on the complex ways in which humanistic activity involves translations of ideas, emotions, and forms across barriers of time, space, and language.

## **Anthropology ANT V 3044y. Symbolism.**

Ordering of experience through symbols in various cultures. Symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—E. Combs-Schilling.

*Not offered in 1984-85.*  
3 points. (V)

## **French FRE BC 3048y. Roland Barthes.**

The evolution of semiotics as seen through the works of Roland Barthes.—A. Boyman.  
*Prerequisite: Satisfaction of the language requirement in French. Not offered in 1984-85.*  
3 points. (II)

## **Italian ITA V 3469x. Renaissance Humanism:**

### **Its Sources, Forms and Legacy.**

Essential aspects of the humanistic tradition.—M. Lorch, R. Galeffi, A. Rabil.

*Prerequisite: One course in either Renaissance history, philosophy, religion, literature or art. Reading knowledge of Latin recommended but not required.*

3 points. Tu 4:10-6:00. Third hour to be arranged. (III)

## **Linguistics LIN V 3410y. The Science of Linguistics and the Art of Translation.**

Linguistic patterns and the application of linguistic techniques in both process of translation and the comparison of original and translated version of a text. Texts include literary, Biblical, and journalistic material in bi- or multi-lingual versions, and students will use materials in languages familiar to them for analysis and translation.—J. Malone.

*Prerequisite: V 1101.*  
*Enrollment limited to 25 students. Advance sign-up required.*  
3 points. Hours to be arranged. (V)

## **Linguistics LIN V 3412y. Linguistics and the Translation of Poetic Language.**

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on

phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages, some chosen by the instructor and others by the students.—J. Malone.

*Prerequisite: V 1101.*  
*Enrollment is limited to 25 students. Advance sign-up required. Not offered in 1984-85.*  
3 points. (V)

## **ORH V 3399x, ORH V 3400y.**

### **Oriental Humanities Colloquium.**

Major works of Middle Eastern, Indian, Chinese and Japanese origins. V 3399x: Koran, Sufi poetry, *Upanishads*, Buddhist sutras, *Bhagavad Gita*; V 3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—I. Bloom, J. Meskill, B. Miller, P. Yampolsky, and Staff.

*Prerequisite: Two courses from among literature, philosophy, religion and Humanities, or permission of the instructor.*  
4 points. (III)

Section I W 4:10-6:00.

Section II (V3400y only) W 1:10-3:00.

## **Oriental Humanities ORH V 3200y. Oriental Encounters.**

Oriental classics of India, China, and Japan viewed through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Merton, Kerouac, Ginsberg and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other courses relevant to the work of these writers.—B. Miller.

3 points. Tu 2:10-4:00. (III)

## **French FRE BC 3047x. Surrealism in Film and Painting.**

Relationship between the critical and creative discourse in the works of Breton, Buñuel, Masson, Magritte, Dali, Picabia and Max Ernst.—S. Gavronsky.

*Satisfaction of the language requirement in French. Not offered in 1984-85.*  
3 points. (II)

## **Political Science POS BC 3423x. Colloquium on Nonviolence.**

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in twentieth-century America and Europe.—D. Dalton.

4 points. W 2:10-4:00. (V)

# Italian

*Office: 206 Milbank Hall*

*Telephone: 280-5418*

## **Professor**

Maristella de Panizza Lorch (Chairman)

## **Visiting Assistant Professor**

Atilio Bettinzoli

## **Lecturer**

Furio Colombo

Other officers of the University offering courses in Italian:

## **Professors**

John C. Nelson, Olga Ragusa, Luciano Rebay

## **Assistant Professor**

Jared Becker

## **Lecturer**

Margherita Repetto Alaia

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have had some Italian, or who have a good knowledge of French or Spanish, but do not feel their background is strong enough for the intermediate course, the comprehensive elementary and intermediate course is recommended as the best way to review what they already know and rapidly proceed beyond it. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and should be attractive to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian department office is 206 Milbank Hall, and the Columbia department is housed in the Casa Italiana. The Center for Italian Studies sponsors a program of lectures, concerts, poetry recitations, films, and informal gatherings, which will enrich the learning experience of the student and offer opportunities for meeting distinguished Italian and Italian-American visitors to the University. The Paterno Library contains the Italian literature and language collections.

The department offers a summer school in Florence using the facilities of Syracuse University.

Graduate courses are open to qualified students upon consultation with the chairman.

## **Italian Studies**

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. For details of the program, see page 133, under Foreign Area Studies.



## REQUIREMENTS FOR THE MAJOR

The courses in the Department of Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible with the Chairman.

The following courses are required unless advanced standing is attained by the departmental achievement test or by the Advanced Placement examination:

Italian V 1101-V 1102	<i>Elementary Full-Year Course</i>
Italian V 1201-V 1202	<i>Intermediate Course</i>
or	
Italian V 1301-V 1302	<i>Comprehensive Elementary and Intermediate Course;</i>

Twelve courses are required for the major including:

Italian V 3333-V 3334	<i>Introduction to Italian Literature</i>
Italian V 3335-V 3336	<i>Italian Written and Oral Style</i>
Italian V 3993-V 3994	<i>Seminar in Italian Literature</i>

plus at least 24 more points in Italian courses numbered above Italian V 1302.

Work in another foreign language or in Italian Studies is highly recommended.

## REQUIREMENTS FOR THE MINOR

A minimum of five courses are required for the minor to be selected from courses including and numbered above V 3333-V 3334.

### Language Requirement

The language requirement can be fulfilled with Italian V 1101-V 1102 and V 1201-V1202 (or their equivalents) or with Italian V 1301-V 1302 followed by a one-year course in Italian literature. Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard, must take the Italian placement test before registering for any Italian course. The test is given during the registration period.

### Language Laboratory

Each student in Italian V 1101-V 1102 has the option to choose a weekly fifty-minute Language Laboratory period at the beginning of the term.

## COURSES OF INSTRUCTION

### ITA V 1101x-ITA V 1102y. Elementary Full-Year Course.

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed.—B. Luciano and staff.

*Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Work in the language laboratory for one hour is optional.*

*4 points.*

*Sections I, II M Tu W Th 9:00.*

*Sections III, IV, V M Tu W Th 12:00.*

### ITA F 1101x-ITA F 1102y. Elementary Full-Year Course.

—B. Carle and associates.

*4 points.*

*Sections I, II Tu Th 6:10-8:00.*

### ITA F 1101y-ITA F 1102x. Elementary Full-Year Course.

—Instructor to be announced.

*4 points. M W F 1:10-2:25.*

# Italian

## **ITA W 1111x-ITA W 1112y. Elementary Conversation.**

*Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.—Instructor to be announced.*  
2 points. Tu Th 1:10-2:25.

## **ITA V 1201x, ITA V 1202y. Intermediate Course.**

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors: translation, composition, and practice in conversation.—M. Repetto Alaia and associates.  
*Prerequisite: V 1101-V 1102 or the equivalent.*  
4 points.  
Section I M Tu W Th 9:00.  
Section II, III M Tu W Th 12:00.

## **ITA F 1201x-ITA F 1202y. Intermediate Course.**

—Instructor to be announced.  
*Prerequisite: F 1101-F 1102 or the equivalent.*  
4 points.  
Sections I, II M W 6:10-8:00.

## **ITA W 1221x-ITA W 1222y. Intermediate Conversation.**

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports.—M. Bellati.  
*Prerequisite: Italian W 1112 or sufficient fluency to satisfy the instructor.*  
2 points. Tu Th 4:10-5:25.

## **ITA V 1301x-ITA V 1302y. Comprehensive Elementary and Intermediate Course.**

With permission of the departmental chairman, this course may be applied toward the fulfillment of the language requirement provided it is followed by a one-year course in Italian Literature.  
*Prerequisite: the instructor's permission. Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of a full year's work in elementary Italian grammar with stress on reading, writing, and conversing.*  
4 points.  
Section I M Tu W Th 11:00-11:50. M. Repetto Alaia and associate.  
Section II M W 4:10-6:00.

## **ITA V 3335x-ITA V 3336y. Italian Written and Oral Style.**

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review.—A. Bettinzoli.  
*Prerequisite: two years of college language or the equivalent.*  
3 points. Tu Th 4:10-5:25.

## **LITERATURE COURSES IN ITALIAN**

For nonmajors, the literature courses listed below will count toward the distribution requirement.

## **ITA V 3333x, ITA V 3334y. Introduction to Italian Literature.**

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature.—V 3333: L. Rebay. V 3334: M. Lorch.  
*Prerequisite: V 1201-V 1202 or the equivalent.*  
3 points. M W 2:40-3:55. (II)

## **ITA V 3196x. Petrarch and Boccaccio.**

*Filostrato*, *Fiammetta*, the *Decameron*, and selections from other works by Boccaccio. Origins of humanism and interrelations between Dante, Boccaccio, Petrarch.—M. Lorch.  
*Prerequisite: two years of Italian or the equivalent.*  
3 points. W 4:10-6:00 and a third hour to be arranged.

## **ITA V 3449x. Modern Italian Literature.**

Nineteenth- and twentieth-century prose and poetry.—L. Rebay.  
*Prerequisite: V 1201-V 1202 or the equivalent.*  
3 points. Not offered in 1984-85. (II)

## **ITA V 3467x. Petrarch and Petrarchism.**

Not offered in 1984-85.

## **ITA V 3468y. Italian Poetry from the Scuola Siciliana to the Dolce Stil Nuovo.**

Development of Italian poetry from its origins to the early part of the 14th century; Guinizelli, Cavalcanti, and Dante; readings, in-depth textual analysis, and class discussions.—L. Rebay.  
*Prerequisite: V 1201-V 1202 or the equivalent.*  
3 points. M W 1:10-2:25. (II)

## **ITA V 3641y. The Italian Theater and Its Contributions to European Theater.**

Tragedy, comedy, commedia dell'arte and melodrama.—M. Lorch.  
3 points. Not offered in 1984-85.

## **ITA V 3891y. Dante, *La Divina Commedia*.**

*The Divine Comedy*, focusing on textual analysis and the appreciation of Dante's masterwork as poetic text. Readings and lectures in Italian; class discussions and written assignments in either Italian or English.—L. Rebay.  
*Prerequisite: Two years of Italian or the equivalent.*  
Not offered in 1984-85.  
3 points. (II)



**ITA V 3221y. Machiavelli, Castiglione, Ariosto, Tasso.**

An analysis of Machiavelli's *Prince* and *Mandragola*; Castiglione's *Book of the Courtier*; Ariosto's *Orlando Furioso* (selections), and Tasso's *Aminta* and *Gerusalemme Liberata* (selections).—J. Nelson.

3 points. Tu 2:10-4:00 plus an hour to be arranged.

**ITA V 3993x-ITA V 3994y. Seminar in Italian Literature.**

Guidance in research and writing of a critical essay.—M. Lorch, J. Nelson, O. Ragusa, L. Rebay. *Required of majors. Open to other qualified students with permission of the chairman.*

3 points. Hours to be arranged.

**COURSES GIVEN IN ENGLISH**

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

**Italian Music ITM V 3116y. Poetry and Music in the Italian Renaissance.**

Focusing upon Petrarch as paradigmatic figure, a study of Renaissance poetry and its musical settings will be made against the background of Renaissance humanism. Included are poets from Dante and Petrarch to Poliziano, Ariosto, Michelangelo, and Tasso; the frottolists Cara and Tromboncino; and madrigal composers such as Verdelot, Willaert, de Rore, Marenzio, Gesualdo, and Monteverdi.—J. Nelson, L. Perkins.

*Prerequisite: First-year Italian or the equivalent and Music Humanities or the equivalent and permission of the instructors.*

Not offered in 1984-85.

4 points.

**History-Italian HII V 3197x. Dante's World.**

Historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering; major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*; development of visual arts and ideas especially in the painting of Giotto.—M. Lorch, S. Wemple.

Not offered in 1984-85.

3 points. (IV)

**ITA V 3223x. Florentine Writers from Dante to Michelangelo.**

Interrelations between Dante, Petrarch, and Boccaccio; Lorenzo de Medici and his circle; Machia-

velli and Guicciardini; Michelangelo and Cellini.—J. Nelson.

3 points. Tu 2:10-4:00 plus an additional hour to be arranged.

**ITA V 3440y. Feminism in Italian Literature and Culture.**

The development of the Feminist Movement in Italy; its origins to the present. Readings will include works by Aleramo, De Cespedes, Maraini and Viganò; historical and sociological background material.—M. Repetto Alaia.

Not offered in 1984-85.

3 points.

**ITA V 3469x. Renaissance Humanism: Its Sources, Forms and Legacy.**

Essential aspects of the humanistic tradition. Humanistic literature in Europe (1400-1500). Forms of humanistic literature, the humanists' concern with Christianity as religion. Humanism and education, politics and visual arts.—M. Lorch.

Not offered in 1984-85.

3 points.

(III)

**ITA V 3451x. The Sonnet: a study of poetic structure.**

Not offered in 1984-85.

**ITA V 3465x-ITA V 3466y. Italian Civilization and Culture.**

Major developments and trends in Italian history, philosophy, literature, and the arts. Autumn: from the Middle Ages to the Baroque. Spring: from the Enlightenment to the present, with special emphasis on opera and film.

Not offered in 1984-85.

3 points.

**Italian Studies ITS BC 3003x. Italian Cultural History 1914-1944: From the Origins to the End of Fascism.**

Seminar. The economic and social conditions of Italy before World War I. Pre-fascist Italian society: the role of the Savoy monarchy; the wide gap between cities and country; in mass movements; the socialists and the catholics. The role of poets and writers as political agitators: from Marinetti to D'Annunzio. Mussolini and the emergence of the middle class. The Fascist "revolution," its establishment, its triumph in the Ethiopian war, its decline with the second world war.—F. Colombo.

Not offered in 1984-85.

3 points.

# Italian

## **Italian Studies ITS BC 3004x. Italian Cultural History 1944 to Present: The Establishment and Development of Democracy.**

Seminar. The rebirth of an industrial country: character of Italian industrialization. East-West polarization and the role of Italy. The Italian "miracle" of the sixties. Social trouble and terrorism in the seventies. The new mass movements of the eighties: women, youth, and minorities. Italy and the European cultural, economic and political community.—F. Colombo.

*3 points. Th 4:10-6:00. Third hour to be arranged.*

## **English-Italian EIT C 3358y. Artistic Theory in the Renaissance.**

Selected texts (in translation) on artistic theory — Alberti, Vasari, Leonardo, among others—and consideration of their importance to the history of art and literary criticism, with attention to the critical terminology used.—K. L. Selig.

*3 points. Tu Th 1:10-2:25.*

## **ITA V 3642y. Studies in Contemporary Italian Arts: Italian Film.**

Historical, social, and stylistic analysis within the context of neo-realism—its antecedents and influence on contemporary cinema. Development of the Italian film industry vis-a-vis politics and society. Films by De Sica, Rossellini, Germi, Castellani, Fellini, as well as historical and contemporary works will be screened.—J. Becker.

*Fee of \$20.00.*

*3 points. Tu Th 4:10-6:00.*

## **GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES**

G4000-level courses are open to qualified undergraduates with the instructor's permission.

## **ITA G 4075x-ITA G 4076y. Dante.**

—ITA G 4075x: J. Nelson. ITA G 4076y: M. Lorch.

*3 points. Th 10:00-11:50.*

## **ITA G 4081y. Fourteenth and Fifteenth Century Italian Literature.**

—J. Nelson.

*3 points. Tu 10:00-11:50.*

## **ITA G 4083x, ITA G 4084y. Italian Chivalric Poetry of the Renaissance.**

Readings and discussion of the works of Boiardo, Pulci, and Ariosto.—M. Lorch.

*Prerequisite: Open to qualified undergraduates with the permission of the instructor.*

*Not offered in 1984-85.*

*3 points.*

## **Political Science POS G 4415y. Social and Political Institutions in Italy Today.**

Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.

*3 points. Th 4:10-6:00, and third hour for Italian-speaking students to be arranged.*

## **Comparative Literature-Italian CPI G 4771x.**

The Poetry of Giuseppe Ungaretti and its French and Italian origins.—L. Rebay.

*3 points. Tu 2:10-4:00.*

## **Comparative Literature-Italian CPI G 4725y.**

Pirandello and the Modern Theater.—O. Ragusa.

*3 points. Th 4:10-6:00.*

## **ITA G 4074y. Montale.**

—L. Rebay.

*3 points. Tu 2:10-4:00.*

## **Italian-Latin ITL G 6086x. Latin Literature of the Renaissance.**

*Prerequisite: Reading knowledge of Latin.*

—M. Lorch.

*3 points. W 2:10-4:00.*





# Linguistics

Office: 329 Milbank Hall

Telephone: 280-5403, 5590, 5417

**Professor**

Joseph L. Malone (Chairman)

**Assistant Professor**

Robert May

The study of linguistics develops understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistics research, as well as insight into the interrelations of linguistics with the other social and communication sciences, the humanities, and philosophy and mathematics.

**REQUIREMENTS FOR THE MAJOR**

Majors in Linguistics may choose among four major course programs: the general major, Language Sciences, Linguistics and Literature, and Anthropological Linguistics. Each program consists of a minimum of eleven courses, including the following:

Linguistics V 1101	<i>Introduction to Linguistics</i>
Linguistics W 4108	<i>Principles of Historical Linguistics</i>
Linguistics W 4204	<i>Introduction to Phonology</i>
Linguistics W 4500	<i>Generative Syntax</i>
Linguistics V 3901	<i>Seminar in Linguistics</i>

Students are also encouraged to take Philosophy V 3415 *Formal Logic*, as well as appropriate courses in ancient and modern languages.

Students enrolled in the general major program are required to take six further courses.

The Language Sciences, Linguistics and Literature, and Anthropological Linguistics major programs offer courses of study relating the contemporary study of language to other closely related fields in the sciences, social sciences and humanities.

**LANGUAGE SCIENCES**

The study of language in its philosophical, psychological and computational setting. The major consists of a minimum of six of the following courses, of which at least two must be in linguistics:

Linguistics W 4502 (*Generative Phonology*), Linguistics W 4600 (*Transformational Grammar*), Linguistics W 4602 (*Issues in Semantics*), Linguistics W 4702 (*Linguistic Theories as Psychological Theories*), Psychology BC 3160 (*Cognitive Psychology*), Psychology BC 3164 (*Language and Perception*), Psychology W 1501 (*Communication Behavior: the Psychology and Structure of Language*), Psychology W 3180 (*Language and Communication*), Philosophy V 3483 (*Theory of Meaning*), Computer Science W 3261 (*Computability and Formal Languages*), Computer Science W 4705 (*Natural Language Processing*).

Other appropriate courses may be substituted upon permission of the student's adviser.

# Linguistics

## LINGUISTICS AND LITERATURE

The role of linguistics in the analysis of literary language in the widest sense: prized types of language in literate and pre-literate societies (e.g. belles lettres and folklore); translation; versification; registers (e.g. journalese, legal language). The major consists of at least six courses to be selected in consultation with the adviser, drawn from the following categories:\*

1. *Linguistics courses*, V3410, V3412, V3414; also Columbia courses subject to availability, e.g. W4004 (*Linguistics and the Verbal Arts*).
2. *Language and literature courses*, to be chosen in consultation with faculty members of the language and literature departments.
3. *Other courses relevant to the major*, for example, Anthropology V3404 (*Ethnolinguistics*), Philosophy V3850 (*Concept of Literature*).

\*A student desiring to limit her courses under category 2 to one language will normally be required to take additional courses under category 3.

## ANTHROPOLOGICAL LINGUISTICS

The study of language in culture and society. The major consists of at least six courses, to include Anthropology V3033 (*Sociolinguistics*), Anthropology V3034 (*Ethnolinguistics*), and four other relevant courses to be selected in consultation with the adviser; e.g. Anthropology V3020 (*Men's and Women's Speech*), Anthropology V3044 (*Symbolism*), Linguistics V3414 (*Linguistics and the Structure of Texts*), Psychology W1501 (*Communication Behavior: the Psychology and Structure of Language*).

## REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V1101.

## COURSES OF INSTRUCTION

### LIN V 1101x, LIN V1101y. Introduction to Linguistics.

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis.—Staff.

*Enrollment limited to ca. 100 students per section.*

*Advance sign-up required.*

*3 points.*

*x: Section I Tu Th 9:10-10:25.*

*y: Section I M W 2:40-3:55.*

### LIN V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar to them for analysis and translation.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and V 3414.*

*3 points. Tu Th 9:10-10:25. (V)*

### LIN V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.—J. Malone.

*Prerequisite: V 1101.*

*Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414. Not offered in 1984-85.*

*3 points. (V)*



**LIN V 3414y. Linguistics and the Structure of Texts.**

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Texts used for illustration and analysis will be in various languages.—J. Malone.

*Prerequisite:* V 1101.

*Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3412. Not offered in 1984-85.*

*3 points. (V)*

**LIN V 3901y. Seminar in Linguistics.**

Supervised research in the student's area of specialization, preparation of a research paper. —J. Malone.

*Limited to senior majors.*

*3 points. W 9:00-10:50.*

**LIN W 4108y. Principles of Historical Linguistics.**

Principles of historical and comparative linguistics.—J. Malone.

*Prerequisite:* V 1101. *Offered annually.*

*3 points. Tu Th 10:35-11:50.*

**Anthropology ANT V 3034x.**

**Ethnolinguistics.**

Instructor to be announced.

*Offered annually.*

*3 points. M W 1:10-2:25. (V)*

**Anthropology ANT V 3033y. Sociolinguistics.**

Instructor to be announced.

*Offered annually.*

*3 points. M W 1:10-2:25. (V)*

**Anthropology ANT G 4322y. Synchronic Linguistics.**

Instructor to be announced.

*3 points. M 4:10-6:00.*

**LIN W 4204x. Introduction to Phonology.**

Basic concepts and issues in phonological theory; development of the phonemic and morphophonemic levels of representation.—J. Malone.

*Prerequisite:* V 1101.

*Offered annually.*

*3 points. Tu Th 10:35-11:50.*

**LIN W 4500x. Generative Syntax.**

Principles and analytic techniques of generative syntax; formal and substantive aspects of transformations, base, lexicon, and semantic interpretation; generative syntax and generative semantics.

—R. May.

*Prerequisite:* V 1101.

*3 points. M W 2:40-3:55.*

**LIN W4600y. Transformational Grammar.**

Development of contemporary thought in theoretical linguistics, focusing on syntactic analysis. Topics include the Standard and Extended Theories, the structure of the lexicon, trace theory, Government-Binding framework. —R. May.

*Prerequisite:* W4500 or permission of instructor.

*3 points. M W 11:00-12:15.*

**LIN W 4602x. Issues in Semantics.**

Determination of meaning by properties of grammatical form. Issues to be discussed include relation of syntactic and argument structure, anaphora, scope of quantification.—R. May.

*Prerequisite:* W 4500 or permission of instructor.

*Not offered in 1984-85.*

*3 points.*

**LIN W 4702x. Linguistic Theories as Psychological Theories.**

Foundations and consequences of taking linguistics as a branch of cognitive psychology. Discussion of the philosophical basis of this perspective, and its effect on research in linguistics and psychology.—

R. May.

*Prerequisite:* W 4602x or W 4600y or permission of instructor.

*3 points. W 1:00-3:30.*

# Mathematics

Office: 404 Mathematics Building

Telephone: 280-3950, 2432

## Professor

Joan S. Birman (Chairman)

## J.F. Ritt Assistant Professor

Paul Hriljac

Other officers of the University offering courses in Mathematics:

## Professors

Hyman Bass, Patrick X. Gallagher, Herve M. Jacquet, Troels Jorgensen, Ellis R. Kolchin, Masatake Kuranishi, Boris G. Moishezon, John W. Morgan

## Associate Professors

Duong H. Phong, Henry Pinkham.

## Assistant Professors

Constantine Callias, Eugene Gutkin, Howard Hiller, Ian Morrison, Steven Plotnick, Lance Smith, Karen Vogtmann

## J.F. Ritt Assistant Professors

David A. Bayer, Don Blasius, Romuald Dabrowski, Robert Friedman, Stephen Humphries, Thongchai Kengmana, Nicholas Shepherd-Barron, Steven Zelditch, George Zettler

The Mathematics Department offers a wide range of courses, which fall into four groups: non-credit courses for students who lack a firm grasp of basics in mathematics, service courses for students who need to learn the tools of mathematics for applications to other areas, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Courses in mathematical statistics are also offered, but a student must petition to major in that branch of the field (see page 255).

Students interested in Computing Science should consult the program listing of that department, page 97.

## General Information

The non-credit offering is V 0077, *Pre-Calculus*.

V 1001-V 1002, *Introduction to Basic Concepts of Mathematics*. Not offered in 1984-85.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: Calculus IA, IIA, IIIA, IVA (Mathematics V1101, V1102, V1201, V1202); Calculus IB, IIB, IIIB, IVB (Mathematics V1103, V1104, V1203, V1204). Honors Mathematics I, II, III, IV (Mathematics V1107, V1108, V1207, V1208.) The A-sequence is a standard course in differential and integral calculus, intended primarily for students who need calculus for its applications. The B-sequence covers substantially the same material as A, but places more stress on theoretical foundations and moves at a more rapid pace. The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Students who perform well in these courses are prepared, after two years, for certain graduate mathematics



courses. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged. Mathematics majors are required to take the B or Honors levels. A fourth sequence on the first year level, IE, IIE, is designed for prospective economics majors.

For non-mathematics majors, an alternative to Calculus IV in the second year is Mathematics V 1220, *Theory of Equations with Applications*. At the opposite end of the spectrum is V 1100, *Brief Calculus*, a one-term survey of the contents of IA-IIA.

Placement in the proper term (I, II, III) and level (A, B, Honors) is guided by the following criteria. Students who have studied calculus in high school and have passed the Advanced Placement Test (AB level) with a grade of 4 or 5 are awarded 3 points credit and may begin with Calculus IIA or Calculus IIB. However, AP credit will be rescinded if they begin with Calculus IA or IB. Those who have received a grade of 3 will be awarded 3 points credit only if they take and pass IIA or IIB or Honors Math I. Students who have studied calculus in high school and have passed the Advanced Placement Test (BC level) with a grade of 4 or 5 are awarded 6 points credit and may begin with IIIA or IIIB (Section II, for freshmen only). Those who have received a grade of 3 will be awarded 6 points credit only if they take and pass IIIA, IIIB, or Honors Math I and II and will be awarded 3 points credit if, instead, they take and pass IIA or IIB.

CEEB-Placement exam policies: Students who receive scores under 550 in the CEEB Mathematics Achievement Test, Level I or II, are required to take the departmental placement exam before they may be admitted to any of the department's offerings. Students who do not pass this examination must take non-credit V 0077 in order to be allowed to register for Calculus. The placement exam is administered during the Autumn and Spring registration period.

Students who have special placement problems should go to Room 404 Mathematics to arrange an appointment with a faculty member or the Chairman, either during Freshman week or during the semester.

The Help Room on the 4th floor of the Mathematics Building is open during the day, Monday through Friday, for students seeking individual help and counseling from the instructors and teaching assistants in the A-sequence.

## REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the departmental assistant (410 Mathematics) to be assigned to a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Fourteen courses are required for the major in mathematics, distributed as follows according to two tracks:

### Pure Mathematics

MAT V 1103-MAT V 1104,  
MAT V 1203-MAT V 1204

or

MAT V 1107-MAT V 1108, MAT V 1207-  
MAT V 1208

MAT W 4061-MAT W 4062

MAT V 3040-MAT V 3041

MAT V 3951 or MAT V 3952

*Calculus IB, IIB, IIIB, IVB*

*Honors Math I-IV*

*Introduction to Modern Analysis*

*Introduction to Modern Algebra*

*Undergraduate Seminars in Mathematics*

and five courses in any combination of mathematics and cognate courses, such as physics, chemistry, astronomy, computing science, etc., to be approved by the adviser.

# Mathematics

Students who elect to take Honors Math I-IV should see the discussion under “General Information” on page 182.

## Applied Mathematics

MAT V 1103-MAT V 1104, MAT V 1203-MAT V 1204 MAT V 3029-MAT V 3030 or MAT V 3027 and MAT V 3202 MAT V 3028 or Eng-Math E 4200 MAT V 3007 MAT W 4061 STA G 4105 Computer Science W 4241 Eng-Math E 4901-E 4902 Eng-Math E 4903-E 4904	<i>Calculus IB, IIB, IIIB, and IVB</i> <i>Linear Algebra and Differential Equations</i> <i>Ordinary Differential Equations</i> <i>Linear Algebra</i> <i>Partial Differential Equations</i> <i>Partial Differential Equations</i> <i>Complex Variables</i> <i>Introduction to Modern Analysis</i> <i>Probability</i> <i>Numerical Analysis</i> <i>Seminar in Applied Mathematics (one point each)</i> <i>Seminar in Applied Mathematics (4 points each)</i>
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## REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chairman.

## COURSES OF INSTRUCTION

**MAT V 0077x, MAT V 0077y. Pre-Calculus.**  
*Graded on a pass-fail basis.*  
*This course does not carry credit toward the bachelor's degree.*  
For students who wish to study calculus but do not have a firm enough grasp of high school mathematics. Topics studied: review of algebra, coordinate geometry, trigonometry, exponents, and logarithms, rates of change. —Staff.  
*3 points, for tuition charges.*  
*Section I M W F 1:10-2:00.*  
*Section II M W F 4:10-5:00.*  
*Section III Tu Th 6:10-7:25.*  
*Section IV M W 7:10-8:25.*

**MAT V 1001x-MAT V 1002y. Introduction to Basic Concepts of Mathematics.**  
*3 points. Not offered in 1984-85. (VI)*

**MAT V 1007x, MAT V 1007y. Applied Linear Algebra (formerly Algebra for Social Sciences).**  
Topics, especially suitable for the social sciences, include: linear and quadratic equations, systems of linear equations, matrices, linear programming, the simplex method, difference equations, applications to economics and finance.—x: J. Morgan. y: L. Szpiro.  
*Prerequisite: High school algebra or V 0070.*  
*Limited to 40 students.*  
*3 points. x: Tu Th 4:10-5:25.*  
*y: Tu Th 1:10-2:25. (VI)*

**MAT V 1100x. Brief Calculus.**  
Covers in a single semester the main ideas of differential and integral calculus, necessarily less extensively than V 1101-V 1102 or V 1103-V 1104. Terminal calculus course. Warning: students who take this course and then wish to continue in calculus must first take V 1101 (or V 1103) *without credit*. They will be permitted to register for V 1102 (or V 1104) only upon receiving a passing grade in V 1101 (or V 1103). Students who anticipate further studies in the sciences or mathematically-oriented social sciences are strongly advised to consider V 1101-V 1102 or V 1103-V 1104 rather than V 1100.—S. Humphries.  
*Prerequisite: High school mathematics through trigonometry or Mathematics V 0077.*  
*3 points.*  
*Tu Th 2:40-3:55, plus recitation either M 12:00 or W 8:00 a.m. (VI)*

**MAT V 1101x, MAT V 1101y. Calculus IA.**  
Functions, limits, derivatives; examples; introduction to integrals. Help-Room on the 4th floor of the Mathematics Building is open to students seeking individual help and counseling by instructors and teaching assistants during the day, Monday to Friday.—H. Hiller and staff.  
*Prerequisite: a firm grasp of high school mathematics through trigonometry, or Mathematics V 0077 or the equivalent.*  
*3 points.*  
*Section I M W F 10:00.*  
*Section II M W F 11:00.*  
*Section III x: M W 1:10-2:25.*



y: M W 4:10-5:25.

Section IV x: Tu Th 6:10-7:25.

y: Tu Th 6:10-7:25.

*Recitation: One hour chosen by the student during the first week of classes from fixed schedule. (VI)*

## **MAT V 1102x, MAT V 1102y. Calculus IIA.**

Methods of integration; applications of the integral; Taylor's Theorem; infinite series.

—H. Hiller and staff.

*Prerequisite: Course V 1101 or the equivalent.*

3 points.

Section I M W F 10:00.

Section II M W F 11:00.

Section III x: Tu Th 6:10-7:25.

y: M W 1:10-2:25.

Section IV y: Tu Th 6:10-7:25.

*Recitation: One hour chosen by the student during the first week of classes from a fixed schedule. (VI)*

## **MAT V 1103x. Calculus IB.**

Same topics as Calculus IA, with greater emphasis on underlying theory.—D. Blasius.

3 points. M W F 11:00.

*Recitation: Tu or Th 8:00 or 12:00. (VI)*

## **MAT V 1104x, MAT V 1104y. Calculus IIB.**

Same topics as Calculus IIA, with greater emphasis on underlying theory.—x: R. Dabrowski; y: D. Blasius.

*Prerequisite: Course V 1103 or the equivalent.*

3 points. M W F 11:00.

*Recitation: Tu or Th 8:00 or 12:00. (VI)*

## **MAT V 1107x, MAT V 1108y. Honors Mathematics I-II.**

For further information see the discussion under "General Information," page 182.

—E. Kolchin.

3 points. M W F 11:00. (VI)

## **MAT V 1111x, MAT V 1112y. Calculus for Economics.**

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, integrals; y: Partial derivatives, notions from linear algebra implicit functions, optimization problems in several variables, complex numbers, linear differential and difference equations with constant coefficients.—Section I: D. Phong. Section II: J. Birman.

*Prerequisite: Same as for V 1101-V 1102.*

3 points. Section I: M W F 10:00. Section II: M W F 11:00.

*Recitation: M 12:00 or W 8:00. (VI)*

## **MAT V 1201x, MAT V 1201y. Calculus IIIA.**

Vectors in dimensions 2 and 3; determinants of order 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; tangent planes, extrema; double and triple integrals; applications.—Ix: M. Handel. Ily: H. Pinkham. IIx: D. Bayer. IVx: D. Bayer. Vx: S. Humphries.

*Prerequisite: Course V 1102 or the equivalent.*

3 points.

Sections I, II, III x: Tu Th 10:35-11:50.

Section I y: M W F 10:00-10:50.  
L. Smith.

Sections IV, V x: Tu Th 1:10-2:25.

Section II y: Tu Th 6:10-7:25.

N. Shepherd-Barron.

*Recitation: x: M or W 8:00 or 12:00;*

*Tu 2:40-3:55, or*

*Th 4:10-5:25.*

*y: Tu 12:00 or Th 8:00.*

*Tu 7:40-8:55 p.m. or*

*Th 4:10-5:25. (VI)*

## **MAT V 1202x, MAT V 1202y. Calculus IVA.**

Vectors in higher dimensions; matrices; determinants; transformations, Jacobians; implicit functions; Lagrange multipliers; change of variables; Taylor formulae in several variables; vector fields; line integrals; divergence and curl; surface integrals.—x: T. Jorgensen; Iy: M. Handel; IIy: H. Pinkham; IIIy: D. Bayer; IVy: D. Bayer; Vy: S. Humphries.

*Prerequisite: Course V 1201 or the equivalent.*

3 points.

x: Tu Th 6:10-7:25.

Sections I, II, III y: Tu Th 10:35-11:50.

Sections IV, V y: Tu Th 1:10-2:25.

*Recitation: x: Tu 7:40-8:55 p.m. or*  
*Th 4:10-5:25.*

*y: M or W 8:00 or 12:00;*

*Tu 2:40-3:55, or*

*Th 4:10-5:25. (VI)*

## **MAT V 1203x, MAT V 1203y. Calculus IIIB.**

Same topics as Course V 1201, with greater emphasis on the underlying theory.—Ix: I. Morrison; IIx: C. Callias; Iy: R. Dabrowski.

*Prerequisite: For Sections Ix or y, Course V 1104. For Section IIx (Freshmen only) see statement under "General Information."*

3 points.

Section Ix Tu Th 10:35-11:50.

Section IIx M W F 11:00. (Freshmen only)

Section Iy M W F 11:00.

*Recitation: Ix: M or W 8:00 or 12:00;*

*IIx (Freshmen only): Tu*

*or Th 8:00 or 12:00.*

*Iy: Tu or Th 8:00 or 12:00. (VI)*

# Mathematics

## **MAT V 1204x, MAT V 1204y. Calculus IVB.**

Same topics as Course V 1202, with greater emphasis on underlying theory.—Ix: A. Babakhanian; Iy: I. Morrison; IIy: C. Callias.

*Prerequisite:* Course V 1203.

3 points.

*Section Ix* M W F 11:00.

*Section Iy* Tu Th 10:35-11:50.

*Section IIy* M W F 11:00 (Freshmen only).

*Recitation:* Ix: Tu or Th 8:00 or 12:00.

Iy: M or W 8:00 or 12:00; IIy:  
(Freshmen only): Tu or Th 8:00 or  
12:00. (VI)

## **MAT V 1207x, MAT V 1208y. Honors Mathematics III, IV.**

N. Shepherd-Barron.

*Prerequisite:* Courses V 1107-V 1108. Course V 1207 is the prerequisite for V 1208.

3 points. Tu Th 10:35-11:50. (VI)

## **MAT V 1220y. Theory of Equations with Applications.**

Topics in abstract algebra extensively used in science and engineering; basic notions of set theory; induction; groups, rings, fields; rings of integers and of polynomials; finite abelian groups; finite rings and fields; elementary combinatorics; difference equations.—H. Jacquet.

*Prerequisite:* One year of calculus.

3 points. Tu Th 10:35-11:50. (VI)

## **MAT V 2040x. Number Theory.**

Congruences, quadratic residues, Gaussian sums; number-theoretic functions; distribution of primes; algebraic and transcendental numbers.—P. Hriljac.

*Prerequisite:* Calculus II.

3 points. Tu Th 1:10-2:25. (VI)

## **MAT V 3007x. Complex Variables.**

Elementary course in functions of a complex variable; fundamental properties of the complex numbers, differentiability, Cauchy-Riemann equations; Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities; residue theorem and conformal mapping.—S. Zelditch.

*Prerequisite:* Calculus IV.

3 points. M W 1:10-2:25. (VI)

## **MAT V 3010y. Fundamental Concepts of Mathematics.**

Not offered in 1984-85.

3 points. (VI)

## **MAT V 3027x. Ordinary Differential Equations.**

Equations of order one; linear equations series solutions at regular and singular points; boundary

value problems; selected applications.—B. Moishezon.

*Prerequisite:* Calculus III or the equivalent.

3 points. Tu Th 6:10-7:25. (VI)

## **MAT V 3028y. Partial Differential Equations.**

Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems. —B. Moishezon.

*Prerequisite:* Course V 3027 or the equivalent.

3 points. Tu Th 6:10-7:25. (VI)

## **MAT V 3029x-MAT V 3030y. Linear Algebra and Differential Equations.**

An integrated course in linear algebra and ordinary differential equations, the latter serving as the major source of motivation for and applications of the former; the contents of V 3027 and V 3022 with applications to population biology, economics, physics, chemistry, electrical circuits, and manifold theory.—H. Pinkham.

*The second term of this course may not be taken without the first.*

*Prerequisite:* Calculus III or the equivalent.

3 points. Tu Th 9:10-10:25. (VI)

## **MAT V 3032x; MAT \*W 4032x. Fourier Analysis.**

Basic elements: Fourier series and integrals, inversion and Poisson summation formulae, applications to number theory, geometry, and mathematical physics. Additional topics to be selected from: a) Eigenfunction expansions, harmonic oscillators, Mehler kernel; b) Radon and x-ray transforms; c) Fourier analysis on groups, etc., integral geometry.—H. Jacquet.

\*Students taking the course for 4½ points will be given additional assignments and take different exams.

*Prerequisite:* 3 semesters of calculus. Some knowledge of linear algebra is suggested but not required.

3 or 4½ points.

Tu Th 2:40-3:55.

## **\*MAT W 4033y. Calculus of Variations.**

Basic elements: Euler-Lagrange equations, symmetry and conservation laws, Noether's theorem, Legendre transform. Direct methods in eigenvalue problems: min-max principles, Rayleigh-Ritz and Galerkin methods, Dirichlet and Neumann bracketing. Additional topics to be selected from differential geometry, dynamics, or the theory of nonlinear waves.—W. Beckner.

\*Students taking the course for 4½ points will be given additional assignments and take different exams.

*Prerequisite:* Same as for W 4032.



3 or 4½ points.  
Tu Th 2:40-3:55.

**MAT V 3040x, MAT V 3041y. Introduction to Modern Algebra.**

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory.—I. Morrison.

*Prerequisite: Calculus IV.*

3 points. Tu Th 1:10-2:25. (VI)

**MAT W 4061x, MAT W 4062y. Introduction to Modern Analysis.**

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor.—L. Smith.

*Prerequisite: Calculus IV or the equivalent.*

3 points. M W 4:10-5:25. (VI)

**MAT V 3202x. Linear Algebra.**

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, reduction to canonical forms.—H. Bass.

*Prerequisite: Calculus III or the equivalent.*

3 points. Tu Th 9:10-10:25. (VI)

**MAT V 3375y. Geometric Topology.**

The fundamental group of a topological space; Seifert-Van Kampen theorem, covering spaces, classification of 2-manifolds, simplicial homology.—S. Humphries.

*Prerequisite: Courses V 3040 and W 4061 or their equivalents. This course is intended primarily for mathematics majors.*

3 points. Tu Th 2:40-3:55. (VI)

**MAT V 3386x. Differential Geometry.**

Local and global differential geometry of submanifolds of Euclidean 3-space; Frenet formulas

for curves; various types of curvatures for curves and surfaces and their relations; Gauss-Bonnet theorem.—J. Morgan.

*Prerequisite: Calculus IV or the equivalent.*

*Primarily for majors in Mathematics.*

3 points. Tu Th 2:40-3:55. (VI)

**MAT V 3901x, MAT V 3902y. Supervised Readings in Mathematics.**

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors listed on the staff list. Written reports and periodic conferences will be required.—Staff.

*Permission of the chairman and of the staff member who agrees to act as sponsor are required. The written permission must be deposited with Ms. Georgiadis, Room 410 Mathematics Building, before registration is completed.*

3 points. Hours to be arranged.

**MAT V 3951x, MAT V 3952y. Undergraduate Seminars in Mathematics.**

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow.—E. Kolchin.

*Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.*

3 points.

*Consult 4th floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.*

**GRADUATE COURSES**

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

# Medieval and Renaissance Studies

*Office: 206 Milbank Hall*

*Telephone: 280-5418, 5417*

This program is supervised by the Committee on Medieval and Renaissance Studies:

**Associate Professor of Classics**

Lydia Lenaghan

**Professor of Italian**

Maristella Lorch (Chairman)

**Professors of English**

Ruth Kivette, Anne Prescott

**Professor of French**

Tatiana Greene

**Professor of History**

Suzanne Wemple (Adviser)

**Professor of Music**

Hubert Doris

**Associate Professor of Spanish**

Marcia Welles

**Associate Professor of Art History**

Jane Rosenthal

**Assistant Professor of Spanish**

Helene de Aguilar

**Lecturer in German**

Regina Ayre

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of the Medieval and Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

## REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, one of the literatures, philosophy, romance philology, music, or religion. A sequence of five courses to be taken in the field of concentration has been developed by the relevant department.

A minimum of twelve courses are required for the major in Medieval and Renaissance Studies, distributed as follows:

- 5 courses in the area of concentration;
- 2 history courses;
- 3 Medieval and Renaissance Studies courses;
- 2 electives to be chosen in consultation with the adviser.

Students are required to write a senior essay, either in a Medieval and Renaissance Studies course or in a senior level seminar in the discipline of their concentration.



# Medieval and Renaissance Studies

## Language Requirements

**Medieval Studies.** A reading knowledge of one Romance or Germanic language is required. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Latin BC3033, *Medieval Literature*.)

**Renaissance Studies.** A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Mimeographed lists of concentration courses are available from the Program Adviser, 413 Lehman Hall.

## REQUIREMENTS FOR THE MINOR

There is no minor in Medieval and Renaissance Studies.

## COURSES OF INSTRUCTION

### **History-Italian HII V 3197x. Dante's World.**

Historical background of Dante's political, social, and ethical thought, and literary analysis of its poetical rendering.—M. Lorch and S. Wemple.  
*3 points. Not offered in 1984-85. (IV)*

### **English ENG BC 3197x. Myth and History at the Court of Elizabeth I.**

—A. Prescott.  
*4 points. Not offered in 1984-85. (I)*

### **MRS BC 3080x. The Court of Este: Myth and History.**

Exploration through history and fiction of the origins and dimensions of the court of Este in Ferrara and the birth and development of Renaissance theater, chivalric and epic poetry.—M. Lorch and R. Pettinelli.  
*4 points. Not offered in 1984-85. (III)*

### **MRS BC 3081x. Italian Renaissance: Courts and the Theater.**

Relation of the textual to the dramatic, musical, choreographic, and visual elements, and the social nature of the encounter between the public and the actors and performers.—H. Doris and M. Lorch.  
*3 points. Not offered in 1984-85. (III)*

### **MRS BC 3082y. Iconography and Allegory.**

Central forms and procedures of medieval and Renaissance iconography and allegory; movement of signs, symbols and narratives from religion and philosophy into literature.—E. Cousins and B. Ulanov.  
*3 points. Not offered in 1984-85. (III)*

### **MRS BC 3086x. Women in the Middle Ages: Ideals and Reality.**

Position of women in the medieval social structure and as reflected in the image of women in literature and art. Women's contributions to art and literature

and some common medieval stereotypes examined on the basis of primary evidence, letters, manuals, documents, literary texts, and works of art.—J. Rosenthal and S. Wemple.

*4 points. Tu 2:10-4:00. (III)*

### **MRS BC 3909y. Senior Seminar.**

Texts central to the continuity and reappraisal of medieval and Renaissance traditions. Readings linked to the student's experience in various fields provide a context for the preparation of a senior thesis.—Members of the Committee.  
*4 points. Hours to be arranged.*

### **Italian ITA V 3469y. Renaissance Humanism: Its Sources, Forms and Legacy. Advanced Seminar.**

Humanistic literature in Europe (1400-1500); forms of humanistic literature, the humanist concern with Christianity as religion, humanism and education, politics and the visual arts.—M. Lorch.  
*3 points. Not offered in 1984-85.*

## Other Medieval and Renaissance Studies Courses

### **Art History ARH BC 3351x. Early Christian and Early Medieval Art.**

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture, and painting under the patronage of church and state in Western Europe from the 4th through the 11th centuries.—J. Rosenthal.  
*3 points. Not offered in 1984-85. (I)*

### **Art History ARH BC 3352y. Art of the Later Middle Ages.**

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Gardner.  
*3 points. M W 2:40-3:55. (I)*

# Medieval and Renaissance Studies

**Art History ARH V 3420y. Italian Sculpture during the Renaissance.**

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.

3 points. Tu Th 6:10-7:25. (I)

**Art History ARH V 3437y. Italian Painting of the Sixteenth Century.**

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

3 points. Not offered in 1984-85. (I)

**Art History ARH V 3460x. Renaissance and Baroque Architecture in Italy.**

Architecture and urban design from 1400 to 1675, focusing on the major works and ideas of Brunelleschi, Alberti, Bramante, Michelangelo, Palladio, Bernini, and Borromini, the architecture of Humanism, the Renaissance city, villas and gardens, baroque Rome, the diffusion of the style outside Italy.—J. Conners.

3 points. Not offered in 1984-85. (I)

**Art History ARH BC 3953y. The Art of Medieval Manuscript Illumination.**

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

4 points. Not offered in 1984-85. (I)

**Latin LAT BC 3033y. Medieval Literature.**

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—L. Lenaghan.

*Prerequisite: Three semesters of college Latin or permission of the instructor.*

3 points. M W 1:10-2:25. (III)

**English ENG BC 3155y. Chaucer.**

*The Canterbury Tales*—Instructor to be announced. 3 points. Tu Th 10:35-11:50.

**English ENG BC 3158y. Medieval Literature.**

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.—B. Ulanov.

*Offered in alternate years. Offered in 1985-86.* 3 points. (I)

**English ENG BC 3163x, ENG BC 3164y. Shakespeare.**

A critical and historical introduction to the com-

edies, histories, and tragedies of Shakespeare.—R. Patterson.

3 points. M W F 11:00. (I)

**English ENG BC 3165x. The Elizabethan Renaissance.**

Continuities, recoveries, and innovations from Skelton and More to Sidney and Spenser: Humanism, the Reformation, Neoplatonism, courtly and popular wit.—A. Prescott.

3 points. M W 1:10-2:25. (I)

**English ENG BC 3998y.**

**I. The Middle Ages.**

—Instructor to be announced.

Tu 2:10-4:00.

**II. The Renaissance.**

—R. Kivette.

W 2:10-4:00.

**French FRE BC 3031y. The Middle Ages.**

Medieval French literature in its historical and cultural context: *La Chanson de Roland*, the Tristan poems of Beroul and Thomas, Abélard, Chrétien de Troyes, Marie de France and *La Quête du Saint Graal*. Certain of the texts will be read in Old French.—P. Terry.

*Nonmajors may take the course with the permission of the instructor. Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.*

3 points. Not offered in 1984-85. (II)

**French FRE BC 3032x. Renaissance and Classical Prose.**

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, La Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 20 students.*

3 points. M W 1:10-2:25. (II)

**French FRE BC 3033x, Renaissance, Baroque, and Classical Poetry.**

Form, content, and aesthetics of poets from Marot to La Fontaine, including Marguerite de Navarre, Louis Labé, Maurice Scève, du Bellay, Ronsard, d'Aubigné, Sponde, other Baroque poets, Boileau, and Racine.—T. Greene.

*Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor. Enrollment limited to 20 students.*

3 points. Not offered in 1984-85. (II)



# Medieval and Renaissance Studies

## **German GER BC 3045y. Literary Traditions in the Time of the Medieval Empire.**

Introduction to the feudal age and to German literature from about 1200 to about 1400; *Parzival*, *Tristan* and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.

*Prerequisite: BC 1204 or the equivalent. Offered every three years.*

*3 points. Not offered in 1984-85. (II)*

## **History HIS BC 3003x. The Early Middle Ages: 300 to 1050.**

Fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Ottonian empires.—S. Wemple.

*3 points. Tu Th 10:35-11:50. (IV)*

## **History HIS BC 3004y. The High Middle Ages: 1050-1450.**

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—S. Wemple.

*3 points. Tu Th 10:35-11:50. (IV)*

## **Italian ITA V 3196y. Petrarch and Boccaccio.**

*Filostrato*, *Fiammetta*, the *Decameron* and selections from others works by Boccaccio. Origins of humanism and interrelations between Dante,

Boccaccio and Petrarch.—M. Lorch.

*Prerequisite: Two years of Italian or the equivalent. 3 points. W 4:10-6:00 and a third hour to be arranged.*

## **Religion REL V 3406y. Medieval Ecclesiastical History: 900-1400.**

Institutional, doctrinal, and social development of Latin Christianity from the post-Carolingian age to the conciliar struggles of the 15th century.—R. Somerville.

*3 points. Not offered in 1984-85. (III)*

## **Spanish SPA BC 3017x. Spanish Literature in the Middle Ages and the Early Renaissance.**

Lectures and discussions in Spanish on Spanish literature from its origins to the beginnings of the sixteenth century.—M. Servodidio.

*3 points. M W F 11:00. (II)*

## **Spanish SPA BC 3018y. Literature of the Golden Age.**

Poetry, theater, and narrative of the Golden Age: Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón.—J. Crapotta.

*3 points. M W F 11:00.*

For other Columbia courses and Graduate courses, please see either Professor Lorch or Professor Wemple.



# Music

Office: 409 Milbank Hall

Telephone: 280-5096

## Professors

Patricia Carpenter, Hubert Doris (Chairman)

## Instructors

Charlotte Cross, Peter Schubert

Other officers of the University offering courses listed below:

## Professors

Jack Beeson, Joel Newman,<sup>1</sup> Leeman Perkins,<sup>2</sup> Ernest Sanders, Howard Shanet, Edward Lippmann

## Associate Professors

Fred Lerdhal, Richard Taruskin

## Assistant Professors

Walter Frish, Max Lifchitz, Katherine Rohrer, Phillip Schuyler, Elaine Sisman, Mark Zuckerman

## Lecturers

Christopher Hatch, Arthur Krieger

## Associates

Niels Østbye, Piero Weiss

<sup>1</sup>Absent on leave, Spring Term.

<sup>2</sup>Absent on leave, 1984-85.

The offerings of the department are designed to encourage the study of music as an art and a craft within the framework of the liberal arts. The courses in the Theory sequence are intended to develop an understanding of the way Western music has developed from the Renaissance to the present. These courses prepare the student practically and analytically for the courses in the History sequence. The History sequence covers the period from the Middle Ages to the mid-twentieth century, emphasizing not only the purely historical development of music, but also its place as an art in society.

The department provides practice rooms at nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes by music majors, and by all others during the week following.

Books, scores, and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Music BC 1001-BC 1002, *An Introduction to Music*.

Students contemplating a career in performance or composition should consult the announcement for the Program in the Arts, page 74.



## REQUIREMENTS FOR THE MAJOR

The music major is a demanding one, but it is hoped that the student will find time to follow special courses of particular interest from among those presented in the Literature and History section of the departmental offering.

A total of 14 courses is required for the major:

V 2100-V 2101, V 2300-V 2301,  
V 2303, V 2305  
V 3123, V 3124, V 3125, V 3126  
V 3179-V 3180

*Theory I, II, III, IV, V, and VI*

*History I, II, III, and IV*  
*Seminar: Historical and Analytical*  
*Studies in the Literature of Music*  
*Orchestration, Conducting, and*  
*Score Reading*

V 3373-V 3374

A student intending to major in music should start with V 2100 and V 3123 as early as possible. BC 1001-BC 1002, though prerequisite for more advanced literature courses, is not required of music majors, since it covers the same kind of materials in greater depth in the courses already required of them. Applied music (a maximum of two courses) may be counted toward the degree, but is not required.

Students planning to do graduate work in theory or ethnomusicology must know at least two foreign languages, including German and French. Those planning graduate work in historical musicology must know Latin, and German or French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

Students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano technique is required to take supplementary piano lessons until an appropriate level of proficiency at the keyboard has been reached, such proficiency to be certified by Mr. Østbye no later than the end of the first term of the senior year. As with other applied music activities, these lessons will carry the equivalent of one point of academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated. A senior major is required to prepare a research paper, project or a recital with essay to be planned in consultation with her adviser no later than the beginning of the senior year.

## REQUIREMENTS FOR THE MINOR

A minimum of six courses is required for the minor, four terms in the Theory sequence and two terms in the History sequence.

## COURSES OF INSTRUCTION

### LITERATURE AND HISTORY

#### MUS BC 1001x-MUS BC 1002y. An Introduction to Music.

Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure.—Staff.

*No previous knowledge of music is required. This course is not designed for students majoring in*

*music. No credit is given for BC 1001 unless BC 1002 is completed.*

*3 points. M W 1:10-2:25. (I)*

#### MUS V 1004y. Literature of the Pianoforte.

Selected works of piano music from the eighteenth century to the present.—H. Doris.

*Prerequisite: BC 1001-BC 1002 or the equivalent.*

*Offered in alternate years. Not offered in 1984-85.*

*3 points. (I)*

# Music

## **MUS V 1005x. The Opera.**

Survey of the development of opera from Monteverdi to the present.—J. Beeson.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

3 points. M W 3:10-5:00.

One hour is a listening hour. (I)

## **MUS V 1006y. The Symphony.**

Survey of symphonic style and structure from 1750 to the present.—E. Sisman.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

3 points. M W 3:10-5:00.

One hour is a listening hour. (I)

## **MUS V 1007x. Music of the World's Peoples: Music in the Muslim World.**

Introduction to musical theories and practices of the world.—P. Schuyler.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

Not offered in 1984-85.

3 points.

One hour is a listening hour. (I)

## **MUS V 1008x. Twentieth-Century Music.**

Survey of contemporary music from the late 19th century to the present.—W. Frisch.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

3 points. Tu Th 3:10-5:00. (I)

## **MUS V 1015y. American Music.**

Survey of music in America from colonial times through the 1950's; the relationship between folk, "entertainment," and art music.—J. Newman.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

Not offered in 1984-85.

3 points. Tu Th 2:10-4:00. (I)

## **MUS V 1016y. Introduction to Jazz.**

A survey of musical topics arising from the study of jazz in America, 1917-1965.—M. Zuckerman.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

Not offered in 1984-85.

3 points. Tu Th 1:10-3:00. (I)

## **MUS V 1023x. J. S. Bach.**

Bach's life and works in the context of his time.

*Prerequisite:* BC 1001-BC 1002 or the equivalent.

3 points. Tu Th 2:10-4:00.

## **MUS V 1617x. Electronic Music: Its Evolution and Techniques.**

Survey of electronic music from 1948 to the present: analysis of compositional techniques and their evolution and applications by various groups and individual composers. Technical procedures employed in creating sound materials.—A. Kreiger.

*Prerequisite:* Course V 2101 or the equivalent and written permission of the instructor.

3 points. Th 4:10-6:00. (I)

## **MUS V 3021y. Schoenberg.**

Music and writings of Arnold Schoenberg in light of his role as conservator and innovator. Representative works, with emphasis on Schoenberg's place within the tradition of classic tonal music and his importance to the music of the twentieth century.—P. Carpenter.

*Prerequisite:* Courses V 2300-V 2301 or permission of the instructor. Offered in alternate years. Not offered in 1984-85.

3 points. (I)

## **MUS V 3042x. Aesthetic Disciplines in Music.**

Basic concepts in aesthetics applied to music, resulting problems in describing, explaining, and evaluating music.—P. Carpenter.

Not offered in 1984-85.

## **MUS V 3123x. History I.**

Western music to the early sixteenth century.

*Prerequisite or Corequisite:* Course V 2100 or the equivalent.

3 points.

Section I M W 1:10-3:00. One hour is a listening hour.—J. Newman.

Section II Tu Th 3:10-5:00. One hour is a listening hour.—R. Taruskin. (I)

## **MUS V 3124y. History II.**

Western music from the early sixteenth century to the end of the seventeenth century.

*Prerequisite:* Course V 3123 or permission of the instructor.

3 points.

Section I M W 1:10-3:00. One hour is a listening hour.—Instructor to be announced.

Section II Tu Th 3:10-5:00. One hour is a listening hour.—K. Rohrer. (I)

## **MUS V 3125x. History III.**

Western music from the end of the seventeenth century to the early nineteenth century.

*Prerequisite:* Course V 3124 or permission of the instructor.

3 points.

Section I M W 1:10-3:00. One hour is a listening hour.—E. Sisman.

Section II M W 3:10-5:00. One hour is a listening hour.—K. Rohrer. (I)

## **MUS V 3126y. History IV.**

Western music from the early nineteenth century to the mid-twentieth century.

*Prerequisite:* Course V 3125 or permission of the instructor.

3 points.

Section I M W 1:10-3:00. One hour is a listening hour.—W. Frisch.

Section II M W 3:10-5:00. One hour is a listening hour.—C. Hatch. (I)



**MUS V 3179x-MUS V 3180y. Seminar.  
Historical and Analytical Studies in the  
Literature of Music.**

Required seminar for senior majors to supplement and coordinate previous studies.

*Prerequisite:* Three years of the theory sequence, two years of the history sequence, and Courses V 3373-V 3374, or written permission of the instructor.

3 points.

Section I W 3:10-5:00.—H. Doris, K. Rohrer.

Section II Th 3:10-5:00.—J. Newman, R. Taruskin.

(I)

## THEORY

**MUS V 1329x, MUS V 1329y. Musicianship.**

Basic elements of music studied with the aim of developing musicianship.—Staff.

*Prerequisite:* Placement examinations will be given at the first class meeting.

3 points. Sections I, II, III M W 4:10-5:25.

All students taking the Music Theory sequence (V 2100 through V 2305) must take a placement examination in ear-training, and must satisfy the ear-training requirement either through the placement examination or the completion of the ear-training sequence V 2000 through V 2003. These courses carry one point each toward the degree.

**MUS V 2000x, MUS V 2000y. Ear-training.  
Level I.**

Intervals, rhythms, and melodic lines, for dictation and sight-singing.—Staff.

Sections I, II Tu Th 9:00.

**MUS V 2001x, MUS V 2001y. Ear-training.  
Level II.**

Three- and four-tone chords and simple passages, for dictation and sight-singing.—Staff.

*Prerequisite:* Course V 2000 or the equivalent. Sections I, II Tu Th 9:00.

**MUS V 2002x, MUS V 2002y. Ear-training.  
Level III.**

Cadences and chord progressions, for dictation and sight-singing.—Staff.

*Prerequisite:* Course V 2001 or the equivalent. M W 9:00.

**MUS V 2003x, MUS V 2003y. Ear-training.  
Level IV.**

Modulations and extended musical passages, for dictation and sight-singing.—Staff.

*Prerequisite:* Course V 2002 or the equivalent. M W 9:00.

**MUS V 2100x-MUS V 2101y. Theory I and II.**

Autumn Term: modal counterpoint in two parts; all

species (five), invertible counterpoint at the octave and the twelfth, and canon. Spring Term: Diatonic harmony in four parts; triads and transformations (inversions and diatonic seventh chords); techniques of prolongation, embellishment, tonicization, and auxiliary (neighbor) modulations.—Staff.

*Prerequisite:* A grade of B minus or higher in Section III of Course V 1329 or on an equivalent examination given by the Department of Music and on the placement test for ear-training.

*Corequisite:* An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test.

4 points.

Sections I, II Tu Th 10:35-11:50.

Laboratory Tu Th 12:10-1:00.

Section III M W 5:10-6:25.

Laboratory M W 6:30-7:20.

**MUS V 2100y, MUS V 2101x. Theory I and II.**

Equivalent to V 2100x-V 2101y.—F. L. Lerdhal, C. Hatch.

*Prerequisite:* A grade of B minus or higher in Section III of Course V 1329 or on an equivalent examination given by the Department of Music and on the placement test for ear-training.

*Corequisite:* An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test.

4 points. Tu Th 1:10-2:25.

Laboratory Tu Th 2:35-3:25.

**MUS V 2300x-MUS V 2301y. Theory III and IV.**

Eighteenth-century harmonic and contrapuntal techniques; double counterpoint, canon, two-part writing in the form of binary movements, inventions, and contrapuntal settings of chorale tunes.

*Prerequisite:* A grade of B minus or higher in Course V 2101, or on an equivalent examination given by the Department of Music, and Course V 2000 or Course V 2001.

*Corequisite:* An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points.

Section I M W 10:35-11:50.—P. Schubert.

Section II Tu Th 1:10-2:25.—M. Lifchitz.

**MUS V 2303x. Theory V.**

Selected eighteenth- and nineteenth-century works.

*Prerequisite:* Courses V 2300-V 2301 or the equivalent.

*Corequisite:* Appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points.

Section I W F 10:35-11:55.—P. Carpenter.

Section II Tu Th 2:40-3:55.—Instructor to be announced.

# Music

## **MUS V 2305y. Theory VI.**

Introduction to harmonic and contrapuntal techniques and structural principles of twentieth century music: selected twentieth century works.

*Prerequisite:* Course V 2303 or the equivalent.

*Corequisite:* appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points.

Section I W F 10:35-11:55.—P. Carpenter.

Section II Tu Th 3:10-4:25.—Instructor to be announced.

## **MUS V 3239x-MUS V 3240y. Composition.**

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.—M. Lifchitz.

*Prerequisite:* Course V 2301 or written permission of the instructor.

2 points. M 1:10-3:00.

## **MUS V 3241x-MUS V 3242y. Advanced Composition.**

Continuation of Course V 3239-V 3240.—M. Zuckerman.

*Prerequisite:* V 3239-V 3240 and permission of the instructor.

3 points. Tu 11:00-12:50.

## **MUS V 3373x-MUS V 3374y. Orchestration, Conducting and Score Reading.**

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments.

*Prerequisite:* Course V 2101 or the equivalent. 3 points.

Section I M W 3:10-4:25.—H. Shanet.

Section II Tu Th 5:10-6:25.—H. Doris.

## **PERFORMANCE ACTIVITIES**

### **(Applied Music)**

A detailed description of the following activities is given in *A Guide to Barnard*.

Academic credit is granted only as indicated below.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, 703 Dodge Hall, at least one week before registration.

## **MUS V 1591x-MUS V 1592y. University Orchestra and Chamber Music.**

Auditions during registration period by appoint-

ment. Room 703 Dodge Hall. Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester.—H. Shanet and Staff.

*Audition necessary.*

M 5:30-7:30 and additional rehearsals in the three weeks preceding each public concert.

## **MUS V 1593x-MUS V 1594y. Barnard-Columbia Chorus.**

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester.—P. Schubert.

*Audition necessary.*

Tu Th 6:00-8:00.

## **COLLEGIUM MUSICUM**

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

## **MUSIC FOR AN HOUR**

This series of informal chamber concerts, held the last Tuesday in every month in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

## **INSTRUMENTAL INSTRUCTION**

A maximum of two courses may be taken. Enrollment in additional courses in instrumental music is limited to music majors and to students concurrently enrolled in the theory sequence. Students will receive one point of degree credit for each course but will be charged tuition at the rate of three or four points for each course. Written permission from the chairman is required.

## **GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES.**

**Music G 4007x. Musical France from Lully to Rameau.**

**Music G 4015y. Schumann.**

**Music G 4423y. Music in West Africa.**

**Music G 4428y. Music in Turkey.**



# Oriental Studies

Office: 321A Milbank Hall

Telephone: 280-5417

## Professors

John Meskill, Barbara Stoler Miller (Chairman)

Other officers of the University offering courses listed below:

## University Professor

Theodore de Bary

## Professors

Isaac Barzilay, Pierre J. Cachia, Chou Wen-Chung (Music), Dieter Christensen (Music), Ainslie T. Embree (History), Nina Garsoian, Moshe Held, Donald Keene, Gary K. Ledyard, Miyeko Murase, William Roff (History), H. Paul Varley, Ehsan Yarshater

## Adjunct Professor

Philip B. Yampolsky

## Associate Professors

Kathleen R. F. Burrill, Carol N. Gluck, Maan Z. Madina, Pauline Yu

## Senior Lecturer

Jeanette Wakin

## Lecturer

Linda Fujie (Music)

## Assistant Professors

Paul Anderer, Peter Awn (Religion), Yael Feldman, Robert Hymes, George Saliba, Philip Schuyler (Music), Madeleine Zelin

The primary aim of Oriental Studies is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian: Introduction to Old Babylonian*; Arabic W 1122, *Intermediate Modern Arabic*; Armenian W 1124, *Intermediate Armenian*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi W 1122, *Intermediate Hindi*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Persian*; Sanskrit G 6102, *Intermediate Sanskrit*; Turkish W 1122, *Intermediate Turkish*, or Urdu W 4002, *Advanced Urdu*.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin—contact Department of East Asian Languages and Culture (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (609 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *every Wednesday during August from 11-1* in 609 Kent Hall.

# Oriental Studies

## REQUIREMENTS FOR THE MAJOR

A student who plans to major in Oriental Studies is advised to consult a member of the department in the Spring semester of her freshman year. Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 133.

To major in Oriental Studies, a student will choose to follow one of two tracks, East Asia or Middle East.

### The East Asian Track

A minimum of 14 courses is required, including

2 of the following courses

Oriental Civilizations— Middle East V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Oriental Civilizations—East Asia V 3002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
Oriental Civilizations V 3359	<i>Introduction to the Civilization of China</i>
Oriental Civilizations V 3361	<i>Introduction to the Civilization of Japan</i>
East Asian V 3201	<i>Introduction to East Asian Civilization: Korea and Vietnam</i>

6 courses of an appropriate language, selected in consultation with an adviser;

4 courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments (Oriental Humanities V 3399-V 3400, *Colloquium*, may be substituted for one of the courses in this category); and

2 courses chosen from among East Asian seminars; East Asian W 4103, *Historiography of East Asia*; East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*; and Oriental Studies BC 3999, *Independent Study*.

### The Middle East Track

A minimum of 12 courses is required, including

Oriental Civilizations— Middle East V 3001	<i>Introduction to Major Topics in Asian Civilization: The Middle East and India</i>
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4 to 6 courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser;

A minimum of 6 courses chosen as a concentration. The concentration may be in ancient Semitic languages and cultures, Arabic studies, Armenian studies, Central Asian studies, Hebrew language, Indian studies, Iranian studies, or Turkish studies. The courses required in each of the concentrations and other details will be explained by the adviser. The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. See also the note on Graduate Courses at the end of this section.

## REQUIREMENTS FOR THE MINOR

No minor is offered in Oriental Studies.



## COURSES OF INSTRUCTION

### GENERAL COURSES

#### **Oriental Civilizations-Middle East ORM V 3001x. Introduction to Major Topics in Asian Civilization: The Middle East and India.**

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—P. Awn and A. Embree.

4 points. Tu Th 10:35-11:50. (IV)

#### **Oriental Civilizations-East Asia OEA V 3002y. Introduction to Major Topics in Asian Civilization: East Asia.**

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—I. Bloom, G. Ledyard, J. Meskill, H.P. Varley, M. Zelin.

4 points. Tu Th 10:00-11:50. (IV)

#### **Oriental Civilizations-Middle East ORM V 3004y. Introduction to Islamic Civilization.**

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions. From its pre-Islamic Arabian setting to the present.—J. Wakin.

3 points. M W 2:40-3:55. (IV)

#### **Oriental Civilizations-Middle East ORM V 3357x. Introduction to the Civilization of India.**

—T. Riccardi.

3 points. Tu Th 1:10-2:25. (IV)

#### **Oriental Civilizations ORC V 3359y. Introduction to East Asian Civilizations: China.**

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.—J. Meskill.

3 points. Tu 2:10-3:00, Th 2:10-4:00. (IV)

#### **Oriental Civilizations ORC V 3361x. Introduction to East Asian Civilizations: Japan.**

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts.—H. P. Varley.

3 points. M W 2:40-3:55. (IV)

#### **Oriental Studies ORS V 3379x. Readings in Oriental Studies.**

—J. Meskill.

3 points. Th 2:10-4:00.

#### **Oriental Humanities ORH V 3399x, ORH V 3400y. Colloquium.**

Major works of Middle Eastern, Indian, Chinese and Japanese origin. V 3399x: Koran, Sufi poetry, *Upanishads*, Buddhist sutras, *Bhagavad Gita*; V 3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—I. Bloom, J. Meskill, B. Miller, P. Yampolsky, and staff.

*Prerequisite: Two courses from among literature, philosophy, religion, and Humanities, or permission of the instructor.*

4 points.

Section I W 4:10-6:00.

Section II (V3400y only) W 1:10-3:00. (III)

#### **Oriental Studies-Religion OSR W 4399x, W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought and Literature.**

Readings in translation. Autumn term: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring term: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Ethical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—P. Anderer, M. E. Tucker, I. Bloom, and staff.

*Knowledge of the original language not required.*  
3 points.

M 4:10-6:00 (conference hour for undergraduates to be arranged). (III)

#### **Middle East-Oriental Humanities OHM V 3031y. Islamic Literature in Translation.**

Modern literature of the Arabs, Persians, Turks, and other Islamic peoples.—K. Burrill.

*Not offered in 1984-85.*

3 points. (III)

#### **Middle East-Oriental Humanities OHM V 3403y. Forms of Art in Indian Asia.**

Classical Indian poetry, drama, painting, and sculpture from the perspectives of Indian religious ritual, political patronage and aesthetic theory.—B. Miller.

*Not offered in 1984-85.*

3 points. (III)

#### **Oriental Humanities ORH V 3200y. Oriental Encounters: The American Experience.**

Oriental classics of India, China, and Japan through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Twain, Kerouac, Ginsberg, and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other sources relevant to the work of these writers.—B. Miller.

3 points. Tu 2:10-4:00 plus conference to be arranged. (III)

# Oriental Studies

## **Oriental Humanities ORH V 3340x. Masterpieces of Art in China, Japan, and Korea.**

Selected masterpieces of painting, sculpture, and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion, and literature.—M. Murase.

*3 points. Tu Th 1:10-2:25. (III)*

## **Oriental Studies-Philosophy OSP C 3915y. Philosophical Problems in Human Rights: A Comparative Analysis of Eastern and Western Traditions.**

—I. Bloom and D. Sidorsky.

*Not offered regularly, Not offered in 1984-85.*

*3 points. (III)*

## **Oriental Studies ORS BC 3999x, ORS BC 3999y. Independent Study.**

Specialized reading and research projects planned in consultation with members of the Oriental Studies teaching staff.—Staff.

*Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.*

*4 points. Hours to be arranged.*

## **EAST ASIAN**

### **East Asian EAS V 3201y. Introduction to East Asian Civilization: Korea and Vietnam.**

—G. Ledyard.

*3 points. M W 4:10-5:25. (IV)*

### **East Asian EAS V 3110x. Rulers and Ruled in Traditional China.**

—R. Hymes.

*3 points. Tu Th 10:35-11:50.*

### **East Asian EAS V 3310y. Rebellion and Revolution in Modern China.**

Social protest and revolutionary movements in 19th- and 20th-century China; sectarian rebellion, secret societies and development of the communist revolution.—M. Zelin.

*Not offered in 1984-85.*

*3 points.*

### **East Asian EAS V 3365x. Poetry and Society in East Asia.**

An examination of Chinese, Japanese, and Korean poetry in its social context, focusing on the political, ideological, and aesthetic forces which shaped the distinctive poetic forms. Topics include Chinese court poetry, popular songs of protest, political allegory, poetry contests, and the culture of the "floating world." —M. Wagner.

*3 points. Tu Th 1:10-2:25.*

### **East Asian EAS V 3450y. China's Sprouts of Capitalism.**

An exploration of China's economic development from the eighteenth century to the present day. Special emphasis will be placed on China's early indigenous economic growth, the role of imperialism in modern Chinese economic history and the economic policies leading up to China's present Four Modernizations program.—M. Zelin.

*3 points. M W 11:00-12:15.*

### **East Asian EAS V 3510y. Love Poetry in China and Japan.**

Selected poems in translation, covering a wide range of periods and genres; folk songs and court poetry, male and female poets, religious texts and popular ballads, Chinese and Japanese aesthetics, as contrasted with Western literary theories and poetic traditions.—M. Wagner.

*Not offered in 1984-85.*

*3 points.*

### **East Asian EAS V 3520y. Two Great Novels and their Worlds. Tale of Genji and Dream of the Red Chamber.**

Two masterpieces of Japanese and Chinese fiction, in translation, and through them the societies which they reflect.—M. Wagner.

*3 points. Th 6:10-8:00 plus 1 hour to be arranged.*

### **East Asian EAS V 3512x. Landscapes and Gardens in Chinese and Japanese Poetry.**

An examination of nature poetry in China and Japan, with emphasis on its philosophical backgrounds, courtly influences, and aesthetic values. Poems include depictions of actual country estates and urban gardens as well as poetic travel diaries and imaginative landscapes. Chinese and Japanese treatments of the relationship between man and nature compared with traditional and modern Western attitudes as reflected in poetry and painting.

*Not offered in 1984-85.*

*3 points.*

### **East Asian EAS V 3560x. Women and East Asian Literature.**

The relationship between women and society, as reflected in major literary texts of China, Japan, and Korea by men and women of various historical periods. Idealized sexual roles and the realities of individual lives, the family system and the world of professional entertainers, modern responses to traditional patterns.

*Not offered in 1984-85.*

*3 points.*

### **Japanese JAP V 3516y. Japanese Writers since 1945.**

A consideration of the role of writers in Japanese



society since the end of the war, covering the main literary, cultural, and political elements that have affected the writing and reading of literature during this time.—D. Keene.  
3 points. *Tu Th 10:35-11:50.*

**East Asian EAS V 3607y. Narrative Strategies in Chinese Literature.**

A critical examination of the art of storytelling in China from its roots in early historical chronicles to its recent uses in revolutionary propaganda and literature of dissent. Texts which range from popular oral tales to sophisticated literary stories and novels illustrate a variety of narrative techniques which are analyzed in terms of traditional Chinese and contemporary European and American critical theory.  
*Not offered in 1984-85.*  
3 points.

**East Asian EAS V 3610y. Social Change Reflected in Literature and Films of Modern Japan.**

Changes in society and values during the modernization of Japan from the mid-19th century until the present, using fiction, diaries, popular culture, and films.—C. Gluck.  
3 points. *Not offered in 1984-85.*

**East Asian EAS V 3615x. Japanese Literature and Japanese Film.**

Japanese literary forms and literary content, and their relationship to Japanese film.—P. Anderer.  
3 points. *Tu Th 4:10-5:25.*

**East Asian EAS V 3620y. Japan: The Aesthetic Tradition.**

Cultural history, stressing aesthetic sensibility of the Japanese as revealed in religion, society, thought, and the arts. Landscape gardens, the culture of tea, Nō theater, and modern "I-novel."—H. Varley.  
3 points. *M W 2:40-3:55.*

**East Asian EAS V 3625y. The Samurai, a Social and Cultural History of Japan's Warrior Class.**

A study of the warrior class of premodern Japan, its traditions, customs, and values, based on portrayals of the samurai and samurai life in historical records, literature, and the visual arts.—H.P. Varley.  
*Not offered in 1984-85.*  
3 points.

**East Asian EAS V 3605x. Writers of Excess: Literature and Imagination in Modern Japan.**

A study of radical or aberrant strategies of cultural expression, after, and in response to, Japan's exposure to the West. Works range from the late

nineteenth century poetry of Tokoku, to the contemporary fiction and plays of Abe, Mishima, and others.—P. Anderer.  
*Not offered in 1984-85.*  
3 points.

**East Asian EAS G 4220x. Japanese Narrative.**

A study of the nature and function of Japanese narrative, from its beginnings to the present.—B. Ruch.  
3 points. *Th 2:10-4:00.*

**East Asian EAS W 3902y. Senior Seminar: China.**

—R. Hymes, M. Wagner and staff.  
*Permission of the chairman required.*  
3 points. *Hours to be arranged.*

**East Asian EAS W 3904y. Senior Seminar: Japan.**

—P. Anderer and staff.  
*Permission of the chairman required.*  
3 points. *Hours to be arranged.*

**Chinese CHI G 4027x. Introduction to Chinese Thought.**

A general introduction to the major works of Chinese classical philosophy and to the systematizing of classical thought in the Han period.—W. T. deBary.  
3 points. *M 9:00-10:50.*

**East Asian EAS W 4101x. Critical Approaches to Chinese and Japanese Literature.**

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Application of these critical methods to selected works of Chinese and Japanese poetry and prose.—M. Wagner.  
3 points. *Th 6:10-8:00 plus 1 hour to be arranged.*

**East Asian EAS W 4103x. Historiography of East Asia.**

Major issues in the practice of history illuminated by a comparison of the works of great occidental and oriental historians, with emphasis on China.—R. Rubinger.  
3 points. *M W 1:10-2:25.*

**Chinese-History CHH W 4820y. Overseas Chinese in Southeast Asia: History and Society, 13th-20th Centuries.**

The growth of the Chinese diaspora from early trading communities to the established minorities of today, emphasizing adaptation and retention of Chinese culture and institutions, economic roles, and sociopolitical relationships with host societies.—R. Roff.  
*Not offered in 1984-85.*  
3 points.

# Oriental Studies

## **History-Japanese HIJ W 3600x. World War II in American and Japanese History.**

From the separate and differing viewpoints of the two nations, an examination of the war as a central experience in recent history. Meaning and impact of the war on social, political, and intellectual life in the period from Versailles through Vietnam.—C. Gluck with lectures by W. P. Metzger, J. Shenton and others.

*3 points. M W 11:00-12:15.*

## **MIDDLE EAST**

### **Armenian-History AMH G 4501x, AMH G 4502y. Armenian History and Civilization, I and II. (formerly History W 4501x, W 4502y)**

Introduction to the history and culture of Greater Armenia from the pre-Armenian Urartean period to the end of the Bagratid dynasty.—N. Garsoian.

*3 points. Th 10:00-11:50. (IV)*

### **Art History ARH V 3160x. Art of India.**

Commencing with the cities of the Indus Civilization in the third millennium B.C., this wide-ranging survey will take us through the history of Buddhist, Hindu and Islamic monuments of the Indian sub-continent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka are considered.—V. Dehejia.

*3 points. Tu Th 4:10-5:25. (I)*

### **History HIS W 1001x. Ancient History of Egypt and Eastern Mediterranean.**

—M. Van De Mierop.

*3 points. Tu Th 1:10-2:25. (IV)*

### **History HIS W 1002y. Ancient History of Mesopotamia and Asia Minor.**

—M. Van De Mierop.

*3 points. Tu Th 1:10-2:25. (IV)*

### **History-Middle East HME W 3901y. India in the Western Historical Imagination.**

The varieties of historical imagination in the Western understanding of India from the 18th to the 20th century as seen in diaries, memoirs, letters, and travel accounts—R. Lewis and A. Embree.

*Instructor's permission required.*

*4 points. W 4:10-6:00.*

### **History-Middle East HME G 4470y. Topics in the Ancient History of Southwest Asia.**

Southwest Asia in ancient times, considering both textual and archaeological evidence.

*Knowledge of the original languages is not required. Not offered in 1984-85.*

*3 points. (IV)*

## **History HIS W 4826y. History of Modern India and Pakistan.**

Development of modern India from the decline of the Mughal Empire and the first establishment of British power to the present time.—A. Embree.

*3 points. Not offered in 1984-85. (IV)*

### **Indic IND G 4102y. History and Cultures of the Himalayan Area.**

—Instructor to be announced.

*3 points. W 2:10-4:00.*

### **Indic IND G 4215y. Modern Indian Fiction.**

Major works of modern Indian fiction from 1930 to the present: Anand, Narayan, Rao, Desai, Anantha Murthy, Rushdie. Considerable emphasis on the social and historical context.—R. Lewis.

*3 points. Tu Th 4:10-5:25.*

### **Indic-Religion INR G 4340x. The Vedic Tradition.**

—A. Wayman.

*3 points. W 11:00-12:50.*

### **Indic-Religion INR G 4454y. Indian Philosophy.**

—A. Wayman.

*3 points. W 11:00-12:50.*

### **Islamic ISL W 4206x. Modernist Thought in the Arab World.**

New currents of thought in the Muslim Arab world; relation of Islam to events of the nineteenth and twentieth centuries.—M. Madina.

*3 points.*

*Tu 2:10-4:00, plus third hour to be arranged.*

### **Islamic ISL G 4230x. Survey of Islamic Science.**

Survey of scientific tradition of Islam from its earliest times till the end of the Middle Ages.—G. Saliba.

*3 points. W 11:00-1:00.*

### **Islamic-Religion ISR V 2630x. Islam.**

Survey of Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods (7th to 13th century A.D.), and their continued evolution in a variety of cultural settings.—P. Awn.

*3 points. Tu Th 9:10-10:25. (IV)*

### **Islamic-Religion ISR V 3635y. History of Sufism.**

History of the Islamic mystical tradition from its origins in the 8th century, through its classical and institutional phases in the 12th century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—P. Awn.

*3 points. M W 1:10-2:25. (IV)*



## **Islamic-Religion ISR G 4610y. Islamic Religion.**

Survey of Islamic institutions in the formative and classical periods; revelation, prophecy, law, philosophy, theology, spirituality, community, religion and politics.—Instructor to be announced.

*A general knowledge of one other Western religion is recommended as well as familiarity with basic methodology in the study of religion.*

*Not offered in 1984-85.*

*3 points.*

## **Islamic Religion ISR W 4570x. Sexual Ethics and the Family in Islamic Law.**

Muslim law of personal status as developed by the classical jurists and modified by contemporary reforms in Muslim countries. Sexual ethics and practice; the law of marriage, divorce, inheritance; family structure and lineage ties.—J. Wakin.

*3 points. M W 2:40-3:55.*

## **Islamic Religion ISR W 4500x. Major Themes in the Qur'an.**

Texts selected for study include passages on the doctrine of God, views of mankind, prophethood and revelation, eschatology, notions of history. Attention given to style, structure, and history of the text.—J. Wakin.

*Knowledge of Arabic is not required.*

*Not offered in 1984-85.*

*3 points.*

## **Islamic Religion ISR W 4452x. Islamic Law.**

The origins of Islamic law, its religious, social and political background and its nature. The schools of law and the elaboration of a legal theory. Conflicts between theory and practice. Contacts with Western law and with customary law in newly Islamic areas. Modern developments and the part played by Islamic law in contemporary legal systems and legal thought in the Middle East.—J. Wakin.

*Not offered in 1984-85.*

*3 points.*

## **Hebrew HEB G 4360x. Biblical motifs in Hebrew Literature.**

—Y. Feldman.

*Prerequisite: Hebrew G 4313 or the equivalent.*

*3 points. Tu 2:10-4:00. (II)*

## **Middle East MDE W 3010x. History of Astrology in the Ancient and Classical World.**

Role of astrology in the development of astronomy; calendar systems of the ancient Orient; origin of the zodiac division; deification of the planets and stellar myth; influence of astrology in Egypt, Baby-

lon, China, Greece, Rome, Iran, and India.—A. Wayman.

*3 points. Tu Th 2:40-3:55.*

## **Middle East MDE W 4510x. Epic and the Middle East.**

A study of epic material recorded in ancient, medieval, and modern periods. Discussion of the epic tradition in the Mesopotamian, Jewish, Indic, Iranian, Armenian, Arab, central Asian, Turkish and Urdu literature and analysis of epic themes as a reflection of social and cultural development.—K. Burrill, F. Pritchett and others.

*3 points. W 11:00-1:00.*

Other general courses related to Oriental Studies:

### **History HIS W 1410y.**

#### **Main Currents in Middle Eastern History.**

—R. Bulliet. (IV)

### **History HIS W 4422x.**

#### **Society from Muhammad to the Mongol Invasion.**

—R. Bulliet. (IV)

### **Political Science POS BC 3424y. Colloquium on Asian Political Thought.**

—D. Dalton. (V)

### **Religion REL V 1102x, REL V 1102y.**

#### **Introduction to the Study of Religion: Eastern Religions.**

(III)

Also note offerings under Eastern Religions in the Religion Department.

## **ORIENTAL LANGUAGE COURSES**

Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for detailed descriptions of courses. Three or more years of language instruction, beginning at the elementary level, are offered in Arabic, Armenian, Chinese, Hindu- Urdu, Japanese, Persian, Sanskrit, Turkish.

*No credit is given for the first semester of the elementary year until the second is completed.*

## **GRADUATE COURSES**

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

# Philosophy

Office: 326 Milbank Hall

Telephone: 280-2064, 8312

### Professors

Hide Ishiguro, Sue Howard Larson, Mary Mothersill (Chairman)<sup>2</sup>

### Assistant Professor

Rebecca Goldstein,<sup>1</sup> Robert Tragesser

### Visiting Assistant Professor

Nancy Holmstrom (Women's Studies)

### Lecturers

John Arras, Eric Katz (Environmental Science), John Lad, Jonathan Lieberman

Other officers of the University offering courses in Philosophy:

### Professors

Bernard Berofsky, Robert D. Cumming, Arthur C. Danto, Richard F. Kuhns, Jr., Issac Levi, Sidney Morgenbesser, Charles D. Parsons, David Sidorsky, James F. Walsh, Richard Wolheim

### Assistant Professors

Maudemarie Clark, Charles Larmore, Thomas Pogge, Wilfrid Sieg

### Adjunct Associate Professor

Leigh S. Cauman

<sup>1</sup>Absent on leave; Autumn Term

<sup>2</sup>Absent on leave, Spring Term

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in technique of conceptual analysis, argument, and the interpretation of texts.

Philosophy BC 1001, *Introduction to Philosophy*, although not a requirement for the major, is recommended to students who have not had previous training in philosophy.

### REQUIREMENTS FOR THE MAJOR

A major in Philosophy consists of at least 10 courses:

V 3701 Moral Philosophy, V 3411 or V 3415 or F 3410 Formal Logic

One of the following courses:

Philosophy V 3121	<i>Plato</i>
Philosophy V 3131	<i>Aristotle</i>
Philosophy V 1101	<i>The History of Philosophy: Pre-Socratics through Augustine</i>

One of the following courses:

Philosophy V 3222	<i>Descartes, Spinoza and Leibniz</i>
Philosophy V 3240	<i>Locke, Berkeley and Hume</i>
Philosophy V 1201	<i>The History of Philosophy: Aquinas through Kant</i>

A course in a specific figure in the history of modern philosophy no later than Kant

or

One of the following courses:

Philosophy V 3601	<i>Metaphysics</i>
Philosophy V 3501	<i>Theory of Knowledge</i>



Two semesters of Philosophy BC 3288-BC 3289 Majors' Seminar, and three electives

The sequence of courses is to be determined in consultation with the major adviser. Philosophy BC 3288-BC 3289 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students. A number of short papers will be required or, subject to departmental approval, a student may elect to write a Senior Essay.

Students who wish to complete a double or joint major including philosophy should consult the chairman of the department at as early a point in their planning as possible.

Philosophy BC 3398, BC 3399, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual project with departmental approval and permission of the instructor.

## REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

## COURSES OF INSTRUCTION

### PHI BC 1001x, PHI BC 1001y. Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge, readings from historical and contemporary sources.—Staff.

3 points.

Section I M W F 9:00. Not offered 1984-85.

Section II M W F 10:00. Not offered 1984-85.

Section III M W F 11:00. x: R. Tragesser,  
y: R. Goldstein.

Section IV Tu Th 10:35. x: J. Lad,  
y: H. Ishiguro.

Section V Tu Th 1:10. Not offered 1984-85.

Section VI M W 2:40. x: M. Mothersill,  
y: R. Tragesser (III)

as well as more recent authors including Berlin, Hart and Rawls.—D. Sidorsky.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 10:35-11:50. (III)

### PHI V 3780y. Philosophy of Law.

Traditional theories: legal positivism, legal realism, and natural law theory; emphasis on the relation of law to morals; the bearing of each theory on such issues as preferential treatment, legal control of sexual conduct, the power of the courts in a democratic society, civil disobedience, the legal control of war and the nature of international law.—J. Arras.

3 points. Tu Th 1:10-2:25. (III)

### PHI V 3803y. The Concept of Beauty.

—M. Mothersill.

3 points. Not offered in 1984-85. (III)

### PHI V 3352y. Recent European Philosophy.

Contemporary developments in continental philosophical movements.—R. Tragesser.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 1:10-2:25. (III)

### PHI V 3701x. Moral Philosophy.

Introduction to the central problems of moral philosophy; reasons for action; obligation; rights and duties; alternative moral ideals; the status and justification of moral judgments. —M. Mothersill.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 10:35-11:50. (III)

### PHI V 3715y. Topics in Moral Philosophy: Purity, Integrity and Candor.

Not offered in 1984-85.

3 points. (III)

### PHI W 3751y. Social and Political Philosophy.

Major concepts and problems of political philosophy including anarchism and justification of authority; natural rights and the limits of freedom; equality, discrimination and distributive justice; populist and pluralist interpretations of democracy. Readings selected from historical works of political theory such as Hobbes, Rousseau, Marx and Mill

### PHI V 3651y. Philosophy of Mind.

A consideration of such central topics as perception, sensation, imagination, emotion, dreaming, intention, volition, madness, self and subjectivity. Although references are made to the views of Aristotle, Descartes, Hume, Rousseau, Sartre and Wittgenstein, the main texts are contemporary works that discuss conceptual issues raised by the topics listed.—H. Ishiguro.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 1:10-2:25. (III)

# Philosophy

## **PHI V 3653x. Philosophy of Body.**

General concepts of material body and the more specific concepts of animate, conscious, and human body as they appear in the works of Aristotle, Galileo, Descartes, Locke, Merleau-Ponty, Sartre, and other contemporary writers. Concepts of matter, criteria for individuation of bodies; relation of persons to their bodies.—R. Goldstein.

*Prerequisite: One philosophy course or permission of the instructor.*

*Not offered in 1984-85.*

3 points. (III)

## **PHI V 3654y. Philosophy of Psychology.**

Consideration of the claims of psychology to the status of science; analysis of specific theories such as behaviorism, psychoanalytic theory and rationalist psychology. Among the topics to be discussed: explanation of behavior, the irreducibility of psychology to the physical sciences, innate ideas, concepts of madness. Selected readings from Hempel, Skinner, Fodor, Ryle, Chomsky, and Freud.—R. Goldstein.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 1:10-2:25. (III)

## **PHI V 3131y. Aristotle.**

Aristotle's theory of human nature and man's place in the universe. Readings from Aristotle's physical, biological, psychological and ethical works.—Instructor to be announced.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 11:00-12:15. (III)

## **PHI BC 3161y. Greek Philosophy.**

—R. Goldstein.

*Not offered in 1984-85.*

3 points. (III)

## **PHI V 3680x. Attitude, Action, and Reason.**

—S. Larson.

*Not offered in 1984-85.*

3 points. (III)

## **PHI V 3222x. Descartes, Spinoza and Leibniz.**

A systematic analysis of concepts central to-seventeenth-century Rationalism. The focus is on problems in epistemology and metaphysics discussed in relationship to logical theory and philosophy of science.—H. Ishiguro.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W F 10:00. (III)

## **PHI V 3240y. Locke, Berkeley and Hume.**

A study of the principal topics of British Empiri-

cism. Problems discussed include: sense perception and innate ideas, the foundations of empirical knowledge, substance and cause, personal identity, freedom of the will, the grounds of political authority, justice and obligation.—R. Goldstein.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W F 10:00. (III)

## **PHI W 3480y. Philosophy of Language.**

An introduction to contemporary issues. Theories of meaning and linguistic knowledge, translation and reference. Readings from Quine, Chomsky, Davidson, and others.—C. Parsons.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 10:35-11:50. (III)

## **PHI V 1101x. The History of Philosophy: Pre-Socratics through Augustine.**

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine.—J. Walsh.

3 points. M W 2:40-3:55. (III)

## **PHI V 1201y. The History of Philosophy: Aquinas through Kant.**

Exposition and analysis of the positions of the major philosophers from Aquinas through Kant.—J. Walsh.

*V 1101 is not a prerequisite for this course.*

3 points. M W 2:40-3:55. (III)

## **PHI V 3855y. Philosophical Implications of the Novel.**

—R. Kuhns.

*Not offered in 1984-85.*

3 points. (III)

## **PHI V 3801y. Aesthetics.**

Systematic inquiry into major problems in the philosophy of art: Idealism (Hegel, Nietzsche, Freud); Modernity and Formalism (Kant); and Imitation Theory (Plato and Aristotle).—R. Kuhns.

*Prerequisite: Permission of the department.*

*Enrollment limited to 35 students.*

3 points. Tu Th 2:40-3:55. (III)

## **PHI V 3850x. Concept of Literature.**

Analysis of linguistic art, oral and written; philosophical problems raised by tradition, style, rhetorical analyses, metaphor, and other tropes, as well as by the thought, and claims of truth. Relationships between philosophy and literature.—R. Tragesser.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 2:40-3:55. (III)



**PHI BC 3364x. Wittgenstein and his Influence.**

—S. Larson.

*Not offered in 1984-85.*

3 points.

(III)

**PHI V 3720x. Ethics and Medicine.**

Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g. informed consent, truth-telling, paternalism; topics in bioethics, e.g. abortion, euthanasia, experimentation on humans, justice and access to health care, human genetics.—J. Arras.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 1:10-2:25.

(III)

**PHI V 3753y. Social Philosophy.**

*Not offered in 1984-85.*

3 points.

(III)

**PHI V 3501y. Theory of Knowledge.**

Contemporary issues in the theory of knowledge, and their historical sources.—I. Levi.

3 points. Tu Th 2:40-3:55.

(III)

**PHI W 3525y. Skepticism.**

An historical and systematic study of the skeptical tradition and its claim that knowledge is impossible. Topics will include the Greek skeptical tradition and Descartes' attempt to overcome it, the "common sense" critique of skepticism, and the persistence of the skeptical debate in contemporary philosophy of science. Readings from Sextus Empiricus, Descartes, Hume, Reid, Moore, Wittgenstein, Popper, and Feyrabend.—C. Karmore.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 2:40-3:55.

(III)

**PHI V 3483y. Theory of Meaning.**

Consideration of the nature of language and of truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages: Frege, Tarski, Austin, Davidson, and others.—S. Larson.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 2:40-3:55.

(III)

**PHI V 3601x. Metaphysics.**

Systematic treatment of some major metaphysical topics, e.g. necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors.—S. Larson.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 6:10-7:25.

(III)

**PHI V 3758x. Philosophy of Education.**

Philosophical presuppositions of intellectual and moral education. Selected readings from Plato, Rousseau, Piaget, Dewey, Israel Sheffler and current periodical literature.—R. Tragesser.

3 points. Tu Th 1:10-2:25.

(III)

**PHI BC 3288x-PHI BC 3289y. Majors' Seminar.**

Intensive study of selected philosophical classics; discussions, oral reports, and term papers.—x: S. Larson, y: H. Ishiguro.

*Enrollment limited to majors. Required of all majors.*

4 points.

W 4:10-6:00. Conference hours to be arranged.

**PHI V 3765y. Ethics and International Affairs.**

Introduction to problems at the intersection of ethics and international relations. The topics to be discussed include recent arguments in favor of an international morality, skepticism about the possibility of moral conduct among nation states, application of Rawls' contract theory to a global context, autonomy, liberty, self-determination, international justice, and enforcement of international moral standards—J. Lieberman.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 4:10-5:25.

(III)

**Environmental Science-Philosophy ESP-BC 3025y. Ethics and the Environment.**

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law.—E. Katz.

3 points. Tu Th 2:40-3:55.

(III)

**PHI BC 3399x, PHI BC 3399y.**

**Supplementary Readings in Philosophy.**

*To be taken only with the consent of the instructor and permission of the department.*

4 points. Hours to be arranged.

**PHI F 3410y. Formal Logic.**

A first course in modern symbolic logic, reviewing a variety of logic methods and systems; emphasis on the concept of proof.—L. S. Cauman.

*Prerequisite: Philosophy F 1401 or permission of the instructor.*

3 points. M W 6:10-7:25.

(III)

# Philosophy

## **PHI V3411x. Formal Logic A.**

Deductive logic: basic concepts and techniques of propositional and quantificational logic. Treatment by these methods of arguments in ordinary language. Relations of the concepts of truth, proof, interpretation and validity. The relation of logic to the sciences.—C. D. Parsons.

3 points. Tu Th 10:35-11:50. (III)

## **PHI V 3415y. Formal Logic B.**

Basic concepts and techniques of propositional and quantificational logic and their use for treating arguments in ordinary language. Metatheoretical analysis of (i) the relation between logical truth and proof (Godel's completeness theorem) and (ii) the problem of deciding logical questions by idealized computers (Church's theorem).—W. Sieg.

*A student may not take both Formal Logic A and Formal Logic B for credit.*

3 points. Tu Th 9:10-10:25. (III)

## **PHI V 3121x. Plato.**

*Not offered in 1984-85.*

3 points. (III)

## **Philosophy-Women's Studies PHI BC 3147y.**

### **Philosophical Issues of Feminist Theory.**

The issue of women's distinct nature is raised in light of radical feminist, traditional Marxist feminist, and contemporary socialist feminist theories.—N. Holmstrom.

3 points. Hours to be arranged.

## **PHI V 3270x. Nineteenth-Century Philosophy.**

The works of Hegel, Marx, Schopenhauer and Nietzsche.—M. Clark.

3 points. M W 4:10-5:25. (III)

## **PHI V 3301y. Twentieth-Century Philosophy.**

—D. Sidorsky.

*Not offered in 1984-85.*

3 points. (III)

## **PHI W 3805y. Philosophy of Art.**

The major subject treated will be painting as art.—R. Wollheim.

3 points. M W 11:00-12:15. (III)

## **PHI W 3278y. Nietzsche.**

Discussion of works from different parts of Nietzsche's career.—M. Clark.

3 points. M W 4:10-5:25. (III)

## **PHI W 3551x. Philosophy of Science.**

A careful but informal description of the physical theories of Galileo, Newton, and Einstein. These concrete examples of scientific theories serve as the background for the discussion of the aims of scientific inquiry and the criteria used for appraising results in realizing these aims.—I. Levi.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. Tu Th 2:40-3:55. (III)

## **PHI V 3657x. Philosophical Idealism and Psychoanalytic Theory.**

The analysis of art and culture in philosophical idealism (Hegel) profoundly influenced both sociological and psychoanalytic theories (Durkheim, Freud). Consideration is given to the first and second generations of Durkheim sociology, but focus is on psychoanalytic thought, its background, development, and current elaborators (Klein, Mahler, Stokes, Winnicott, Ricoeur, Laplanche, Girard).—R. Kuhns.

*Prerequisite: The permission of the department.*

*Limited to 30 students.*

3 points. Hours to be arranged. (III)

## **PHI V 3786x. Free Will and Responsibility.**

New and traditional approaches to the question of the existence and nature of human freedom are explored. Special attention is paid to the impact on theories of freedom of metaphysical positions such as determinism and views about the nature of moral responsibility. Legal responsibility and theories of punishment are also discussed.—B. Berofsky.

*Prerequisite: One philosophy course or permission of the instructor.*

3 points. M W 2:40-3:55. (III)

## **PHI W 4821x. The Concept of Criticism.**

—M. Mothersill.

*Not offered in 1984-85.*

3 points. (III)



# Physical Education

*Office: 209 Barnard Hall*

*Telephone: 280-2085*

## **Associates**

Lynda Calkins-McKenna (Chairman), Peentz Dubble, Sharon Everson, Jean Follansbee, Catherine Hartmann, Abby Herzog

## **Curriculum**

The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, movement, fitness, and other specialized courses. Modern dance, ballet, tap, and jazz dance courses are offered under the auspices of the Dance Department and may be taken to fulfill the Physical Education requirement. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential, and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

## **Intercollegiate Athletics**

The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Nine varsity sports are currently sponsored: Archery, Basketball, Cross Country, Fencing, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. Governed by NCAA and Ivy League rules, all teams have Division I status except basketball, which is currently Division III. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition, students are eligible to qualify for state, regional, and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact Margie Greenberg, Associate Director of Athletics, at the Columbia Dodge Fitness Center, or check for information in the Physical Education Department in room 209, Barnard Hall.

## **Recreation**

The physical education facilities are available for recreation at specified times. A departmental flyer publicizes opportunities for swimming and use of the gymnasium, track, weight room, and bowling alleys.

The Recreational Athletic Association (RAA) conducts intramurals, sponsors sports clubs, and plans recreation programs. Students are urged to participate or offer suggestions for developing clubs and activities groups.

## **Health Status**

Students who have failed to submit a medical report to the Office of Health Services may *not* participate in physical education classes and activities. Freshmen will receive a failure for such omission.

Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity where possible, based upon the recommendations of the College Physician.

## **Posture Analysis**

Freshman students may elect to have a complete posture analysis with follow-up examinations. Posture Laboratory is offered as a course each semester for students who wish to improve body alignment.

# Physical Education

## Requirement

Students admitted as freshmen must complete two semesters in the freshman year, and two semesters beyond the freshman year. Transfer students are required to have two semesters' credit beyond the freshman year. Transfers who enter as second-semester freshmen must also complete one course in the freshman year.

## Registration

A complete schedule of courses is prepared each semester for Preregistration, and schedules are available in the Physical Education Department Office, 209 Barnard Hall. Preregistration should be confirmed before filing programs with the registrar. Students must include physical education courses by **number, title, section, and sequence number** on final programs filed with the registrar. Students who do not preregister may register during the first two days of the semester in the gymnasium.

An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in some Columbia courses. Columbia College and Engineering School students may register for some Barnard courses through the Columbia Physical Education Department. **Other Columbia University students must receive permission of the Physical Education Department to register before completing registration procedures.**

## Courses

Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level. Beginner = (A), low intermediate = (B), intermediate = (C), advanced = (D).

## COURSES OF INSTRUCTION

### AQUATICS COURSES

#### **PED BC 1120x, PED BC 1120y. Beginning Swimming. (A)**

Development of confidence and survival techniques in the water. Introduction of front crawl and elementary backstroke.

*Section I M W 11:00.*

*Section II M W 2:10.*

*Section III Tu Th 12:10.*

#### **PED BC 1121x, PED BC 1121y. Low Intermediate Swimming. (B)**

Review of survival techniques, front crawl and elementary backstroke. Introduction of breaststroke.

*Section I M W 1:10.*

*Section II Tu Th 1:10.*

#### **PED BC 2122x, PED BC 2122y. Intermediate Swimming. (C)**

Further development of the front crawl, elementary backstroke, and breaststroke. Introduction of advanced survival techniques, sidestroke, back-crawl and turns.

*Tu Th 11:00.*

#### **PED BC 3123x. Advanced Swimming. (D)**

Development of endurance and perfection of stroke technique of front and back crawl, elementary

backstroke, sidestroke, breaststroke, trudgeons, inverted backstroke, butterfly, and overarm sidestroke.

*Tu Th 3:10.*

#### **PED BC 2124x, PED BC 2124y. Swim Fitness. (C)**

Combination of various swimming strokes and water exercises used to develop cardiovascular endurance and muscle tone.

*Section I M W 10:00.*

*Section II Tu Th 9:30-10:20.*

#### **PED BC 3125x, PED BC 3125y. Lap Swim. (D)**

Students determine an individual training program with the instructor on a contract basis.

*Not open to first semester freshmen. Swimming test for class admission given at first class meeting.*

*Section I M W 12:10.*

*Section II Tu Th 4:10.*

#### **PED BC 3128x. Advanced Lifesaving and C.P.R. (D)**

Personal safety, swimming rescues, preventive life-guarding; leads to two Red Cross certifications. *Swimming test for class admission given first class meeting.*

*M W 3:10-5:00.*



# Physical Education

## **PED BC 3129y. Water Safety Instructor Course. (D)**

Review of skills for beginner through lifesaving courses, instruction in teaching techniques; leads to Red Cross certification; **Current Advanced Lifesaving certification required.**

*Swimming test for class admission given first class meeting.*

*Permission of instructor required.*

*Hours to be arranged.*

## **FOLK DANCE COURSES**

### **PED BC 1240x, PED BC 1240y. Beginning Folk Dance. (A)**

Basic step combinations, formations, dances and background of the dances of Europe, the Near East, and the U.S.A.

*Section I M W 3:10.*

## **SPORTS COURSES**

### **PED BC 1350x, PED BC 1350y. Beginning Archery. (A)**

Basic techniques in target shooting for the beginner or novice; selection and care of equipment; knowledge of competition, including inter-collegiate, open, and Olympic.

*Section I Tu Th 12:10.*

*Section II Tu Th 1:10.*

### **PED BC 2351y. Intermediate and Advanced Archery. (CD)**

Advanced techniques for the archer who has had the equivalent of a semester of instruction; opportunity to compete informally in class and to prepare for membership on the Archery Team.

*Permission of instructor required.*

*Not offered in 1984-85.*

### **PED BC 1353x, PED BC 1353y. Badminton. (ABCD)**

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

*M W 1:10.*

### **PED BC 1455x, PED BC 1455y. Basketball. (ABC)**

Basic skills of conditioning, ball handling, and shooting, offensive and defense patterns of play. Drills as well as game play.

*M W 4:10.*

### **PED BC 1357x, PED BC 1357y. Beginning and Low Intermediate Bowling. (AB)**

Basic approach, delivery; spot bowling and spare conversion; scoring.

*Section I M W 10:00.*

*Section II M W 11:00.*

*Section III M W 12:10.*

*Section IV Tu Th 10:00.*

*Section V Tu Th 11:00.*

*Section VI Tu Th 12:10.*

### **PED BC 2358x, PED BC 2358y. Advanced Bowling. (CD)**

Must average 100, show knowledge of technique and spot bowling to qualify.

*Not open to first semester freshmen.*

*Permission of the instructor required.*

*Section I M W 1:00.*

### **PED BC 1360x, PED BC 1360y. Beginning Fencing. (A)**

Basic offensive and defensive foil techniques; footwork; rules and officiating.

*Section I M W 12:00.*

*Section II Tu Th 11:00.*

### **PED BC 1361x, PED BC 1361y. Low Intermediate and Intermediate Fencing. (BC)**

Expansion of basic skills; tactics; use of electrical apparatus. Intraclass tournaments.

*Not offered in 1984-85.*

### **PED BC 1364x, PED BC 1364y. Beginning Tennis (A)**

Basic forehand, backhand, drives and volleys, and introduction to the serve; scoring.

*Section I M W 11:00.*

*Section II M W 3:10.*

*Section III Tu Th 2:10.*

### **PED BC 1365x, PED BC 1365y. Low Intermediate Tennis. (B)**

Refinement of forehand, backhand, volley and serve; scoring; simulated games.

*Section I M W 2:10.*

*Section II Tu Th 3:10.*

### **PED BC 2366x, PED BC 2366y. Intermediate Tennis. (C)**

Further development of strokes, service return; net play; doubles play.

*Section I M W 10:00.*

*Section II Tu Th 11:00.*

### **PED BC 2367x, PED BC 2367y. Intermediate and Advanced Tennis. (CD)**

Advanced net play, overheads; strategy; singles and doubles.

*Permission of the instructor required.*

*Tu Th 9:30-10:20.*

### **PED BC 1470x, PED BC 1470y. Beginning and Low Intermediate Volleyball. (AB)**

Introduction of forearm pass, overhead fingertip pass, serve and spike, and basic offensive and defensive strategies.

*M W 12:10.*

# Physical Education

## **PED BC 2471x, PED BC 2471y. Intermediate and Advanced Volleyball. (CD)**

Power volleyball skills and various offensive and defensive strategies.

*Tu Th 4:10.*

## **SPECIAL COURSES**

### **PED BC 1680x, PED BC 1680y. Beginning Movement Workshop. (A)**

Creative exploration, analysis and observation of movement.

*Section I M W 1:10. (Autumn Term only)*

*Section II Tu Th 9:00.*

### **PED BC 1681y. Low Intermediate Movement Workshop. (B)**

Exploration of student's individual movement patterns. Works of Laban and Bartenieff will be used as tools for analysis.

*M W 1:10. (Spring Term only).*

### **PED BC 1582x, PED BC 1582y. Aerobic Dance.**

Vigorous movement routines choreographed to popular music to develop cardio-vascular endurance and muscle tone.

*Section I M W 10:00.*

*Section II M W 11:00*

*Section III Tu Th 10:00.*

*Section IV Tu Th 12:00.*

### **PED BC 1583x, PED BC 1583y. Beginning Fitness. (A)**

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardio-vascular efficiency.

*Section I M W 9:00. (Autumn Term only)*

*Section II M W 12:10.*

*Section III M W 1:10.*

*Section IV Tu Th 4:10.*

### **PED BC 2584y. Intermediate Fitness. (C)**

Intensive fitness program for students who have taken BC 1583 or who have been engaged in a vigorous conditioning program.

*M W 9:00. (Spring Term only)*

### **PED BC 1585x, PED BC 1585y. Weight Training.**

Introduction to principles of weight training; use of the Universal Weight Machine. Programs tailored to individual needs.

*Section I M W 10:00.*

*Section II M W 11:00.*

*Section III Tu Th 9:30-10:20.*

*Section IV Tu Th 11:00.*

### **PED BC 1686x, PED BC 1686y. Posture Laboratory.**

Exercises to strengthen and stretch the skeletal muscles; practice in the release of muscle tension and in the correct alignment of the body.

*Tu Th 1:10.*

### **PED BC 1688x, PED BC 1688y. Relaxation.**

Techniques of releasing muscle tension in the skeletal muscles of the body.

*Section I M W 2:10.*

*Section II Tu Th 12:10.*

### **PED BC 1690x, PED BC 1690y. Beginning Self Defense. (A)**

Development of poise and confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

*Not offered in 1984-85.*

### **PED BC 1693x, PED BC 1693y. Beginning Yoga. (A)**

Basic Hatha yoga positions; body awareness; relaxation.

*Section I M W 2:10.*

*Section II Tu Th 10:00.*

### **PED BC 1695x, PED BC 1695y. Low Intermediate Yoga. (B)**

Basic standing poses and inverted postures—plough, shoulderstand, headstand, handstand.

*M W 3:10.*

### **PED BC 2694x, PED BC 2694y. Intermediate Yoga. (C)**

Advanced Hatha yoga postures; inverted positions; breathing and concentration techniques.

*Tu Th 1:10-2:25.*

### **PED BC 2799x, PED BC 2799y. Independent Study.**

Enrollment in a course of instruction.

*Not open to first semester freshmen or transfer students. Approval of Department required. Limited to one semester of credit.*

## **DANCE**

See Dance Department (page 102) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement. Courses offered are:

Ballet—Beginning, Low Intermediate, Intermediate, Advanced.

Jazz—Low Intermediate, Intermediate.

Modern—Beginning, Low Intermediate, Intermediate.

Tap—Beginning, Intermediate.



# Physics

Office: 502 Altschul Hall

Telephone: 280-5101

## Professor

Richard M. Friedberg

## Assistant Professors

Karen M. Barad, Sally Etherton Cummins (Departmental Representative)

Other officers of the University offering courses listed below:

## Professors

Charles Baltay, Norman Christ, Gerald Feinberg, Paola Franzini, Sven Hartmann, T. D. Lee, Wonyong Lee, Joaquin Luttinger, Alfred Mueller, Robert Novick, James Rainwater, Malvin Ruderman, Allan Sachs, Frank Sciulli, Robert Wilson

## Visiting Professor

Jacob Shaham

## Associate Professors

Allan Blaer, David Helfand, Michael Shaevitz, Erick Weinberg

## Assistant Professors

Maged Atiya, Ray Beach, Robert Blair, Gary Chanan, Eric D'Haker, Jules Halpern, William Ku, Wesley Smith, Anthony Terrano, Michael Tuts, George Tzanakos

The study of physics ranges from disciplined preparation for professional work in physics itself, or a basic education in physics necessary for the study of, or work in, other sciences and medicine, to a more general familiarity with physics and its historical development as part of contemporary culture.

In cooperation with the faculty of the University, Barnard offers a thorough pre-professional curriculum. The faculty represents a wide range of expertise, with special strength and distinction in elementary-particle and theoretical physics.

The unique facilities of Barnard's History of Physics Laboratory, oriented to the broader perspective, are available to students at all levels—from introductory classes to individual studies and researches.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. C 1001-C 1002, *Elementary Physics* and V 1305-V 1306, *Physics in Historical Perspective*, are intended for liberal arts students whose aim is to achieve some qualitative understanding of science.
2. Either V 1003, V 1004, *General Physics*, or V 1103, V 1104, *General Physics*, is satisfactory preparation for medical school. Both cover the same material, but V 1103, V 1104 is somewhat more intensive and is designed for students majoring in sciences; V 1003, V 1004 is not recommended as a foundation for more advanced work in physics.
3. An entering student with a serious interest in physics should enroll in the Autumn Term in C 1006, *General Physics I. Mechanics*, which begins a four-term sequence (C 1007, C 1011, C 1012, *General Physics II-IV*), leading to more advanced courses. (These courses may be taken without laboratory by nonmajors. See the Columbia College bulletin for the appropriate course numbers.)
4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C 1021, C 1022, *General Physics*, which replaces the first three terms of the sequence starting with C 1006. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

# Physics

A major in physics may prepare the way to a great variety of careers in, or related to, science. Students interested in such possibilities are encouraged to consult the department chairman or Professor Cummins. Students interested in studies in the History/Philosophy of Science should consult Professor Devons, or another member of the Columbia College Interdepartmental Committee for the History and Philosophy of Science.

## REQUIREMENTS FOR THE MAJOR

The courses required for a major in physics are:

C 1006, C 1007 or C 1107, C 1011; or C 1021 and C 1022.

With special permission V 1103 and V 1104 may be substituted for all or part of the above courses.

C 1012	<i>Modern Physics</i>
W 3003	<i>Mechanics</i>
W 3007, W 3008	<i>Theory of Electricity and Magnetism</i>
W 3021	<i>Quantum Physics</i>
W 3022	<i>Statistical Physics</i>
W 3083	<i>Electronics Laboratory</i>

and 4½ points of intermediate laboratory work (W 3081, *Intermediate Laboratory Work*; BC 3011, BC 3012, History of Physics Laboratory), of which a minimum of three points of laboratory work in W 3081 is required.

All 1000-level courses must be taken with laboratory.

Four terms of calculus are required, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy, geology, or biology may be substituted.

In addition, students planning to study physics in graduate school are strongly urged to take

G 4003	<i>Lagrangian Mechanics</i>
G 4015, G 4016	<i>Atomic Physics and Introductory Quantum Mechanics</i>
W 3072	<i>Seminar in Current Research.</i>

The major examination consists of the Graduate Record Examination in physics.

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including C 1006, C 1007 or C 1107, C 1011, C 1012, and one course at the 3000- or 4000-level.

For information concerning a major in astrophysics, see the Columbia College Bulletin.

## COURSES OF INSTRUCTION

### PHY V 1305x, PHY V 1306y. Physics in Historical Perspective.

Topics in elementary physics with an emphasis on the historical development of physical theories. The experimental work is done in the History of Physics Laboratory.

—K. Barad.

*Although this course is oriented primarily to non-science students, the course does require a willingness to review and use elementary algebra. Enrollment limited to 50 students. Permission of the instructor required.*

*4½ points. Lecture Tu Th 1:10-2:25.*

*Laboratory 3 consecutive hours weekly to be arranged.*

### PHY C 1001x, PHY C 1002y. Elementary Physics.

Introduction to physics for students with no previous background. In the first semester the course deals with the physics of energy and in the second semester with relativity and subatomic physics.—D. Helfand.

*This course uses very little mathematics. It does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students.*

*3 points. Lecture M W 1:10-2:25.*



## **PHY V 1003x, PHY V 1004y. General Physics.**

Mechanics and heat, electricity, magnetism, optics, and modern physics.—W. Smith, S. Cummins.

*Calculus is not a prerequisite for this course.*

4 points.

*Lecture and Recitation:*

*Section I M W F 11:00.*

*Section II Tu Th 11:00-12:15.*

*Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or 4:10-7:00.*

*Recitation and laboratory sections are arranged after the first class meeting.*

## **PHY V 1103x, PHY V 1104y. General Physics.**

Same topics as V 1003-V 1004 discussed at a somewhat higher level, using calculus.—C. Baltay.

*Prerequisite: Calculus I and II.*

4 points. *Lecture M W 11:00-12:15.*

*Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or 4:10-7:00.*

*Laboratory sections are arranged after the first class meeting.*

## **PHY C 1006x. General Physics I. Mechanics.**

Fundamental laws of mechanics; kinematics; dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics.—J. Halpern, R. Blair.

*Corequisite: Calculus I or the equivalent.*

3½ points.

*Lecture and Recitation:*

*Section I M W F 9:00.*

*Section II M W 8:35-9:50.*

*Section III Tu Th 11:00-12:15.*

*Laboratory 3 hours every other week. Times to be arranged after first class meeting.*

## **PHY C 1007y. General Physics II. Electricity and Magnetism.**

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion.—R. Blair.

*Prerequisite: Course C 1006. Corequisite: Calculus II or the equivalent.*

3½ points.

*Lecture and Recitation:*

*Section I M W F 9:00.*

*Section II Tu Th 11:00-12:15.*

*Laboratory 3 hours every other week. Times to be arranged after first class meeting.*

## **PHY C 1011x. General Physics III. Optics and Thermodynamics.**

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws, the laws of thermodynamics; kinetic theory of gases.—G. Chanan, S. Hartmann.

*Prerequisite: Course C 1006. Corequisite: Calculus III.*

3½ points. *Lecture Tu Th 9:00-10:15.*

*Laboratory 3 hours every other week. Times to be arranged after first class meeting.*

## **PHY C 1012y. General Physics IV. Modern Physics.**

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles.—M. Tuts, J. Halpern.

*Prerequisites: Courses C 1011 and C 1007 or C 1107.*

3½ points. *Lecture Tu Th 9:00-10:15.*

*Laboratory 3 hours every other week. Times to be arranged after first class meeting.*

## **PHY C 1021x, PHY C 1022y. General Physics.**

Mechanics, heat, electricity, magnetism, and light.—G. Feinberg.

*Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus, and permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.)*

4 points. *Lecture Tu Th 11:00-12:15.*

*Laboratory 3 hours to be arranged at the first class meeting.*

## **PHY BC 3011x, PHY BC 3012y. Advanced History of Physics Laboratory.**

Experimental investigations in the logical and historical development of physics studied by both laboratory and literary work. Students work individually or in collaboration with other students, choosing one or two examples (ranging from physics in the 17th to the 20th century), and study these thoroughly.—S. Cummins.

*Prerequisite: Good basic knowledge of physics, aptitude for laboratory work and individual initiative.*

*Permission of the instructor required. Laboratory work is required.*

2 points. *Hours to be arranged.*

## **PHY W 3003x. Mechanics.**

Newton's laws of motion. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. A brief introduction to Lagrange's equations and Hamilton's equations.—W. Lee.

*Prerequisite: General physics and integral calculus.* 3 points. *Tu Th 10:35-11:50.*

## **PHY W 3007y. Electricity and Magnetism.**

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansions. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity.—R. Friedberg.

*Prerequisites: Course C 1007 or C 1107 or the equivalent, and differential and integral calculus.* 3 points. *Tu Th 10:35-11:50.*

# Physics

## **PHY W 3021x. Quantum Physics.**

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance.—R. Friedberg.

*Prerequisite: Physics C 1012.*

*3 points. Tu Th 9:00-10:15.*

## **PHY W 3022y. Statistical Physics.**

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors.—G. Chanan.

*Prerequisite: Physics W 3021x.*

*3 points. Tu Th 9:00-10:15.*

## **PHY W 3072y. Seminar in Current Research Problems.**

Detailed study of a selected field of active research in physics; motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems.—R. Novick.

*Permission of the department representative required. Open only to senior physics majors.*

*2 points. Th 4:10-5:25.*

## **PHY W 3081x, y. Intermediate Laboratory Work.**

The laboratory has available 14 individual experiments, of which two are required per point. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics.—A. Sachs, M. May.

*For junior and senior physics majors. Other majors require the instructor's permission. May be repeated for credit by performing different experiments.*

*1½ points. Hours to be arranged.*

## **PHY W 3083x, PHY W 3083y. Electronics Laboratory.**

Experiments in solid state electronics, with introductory lectures.—G. Tzanakos, P. Franzini.

*Permission of the instructor required. Corequisite: Course W 3003 or W 3007. Registration is limited to the capacity of the laboratory.*

*2 points. M W 1:00-4:00.*

## **PHY G 4003y. Lagrangian Mechanics.**

Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes.—J. Luttinger.

*Prerequisites: Course W 3003 or the equivalent, and differential and integral calculus.*

*3 points. Tu Th 2:15-3:30.*

## **PHY G 4009x. Light.**

Physical and geometrical optics.—P. Franzini.

*Prerequisites: General physics and integral calculus.*

*3 points. Tu Th 2:40-3:55.*

## **PHY G 4015x, PHY G 4016y. Atomic Physics and Introductory Quantum Mechanics.**

Experimental basis of modern atomic physics; interpretation of atomic structures and radiation phenomena in terms of quantum theory. Elementary wave mechanics applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms treated by perturbation theory; theory of spin and angular momentum.—J. Shaham.

*Prerequisite: Courses C 1006, C 1007, C 1011 and C 1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics.*

*3 points. Tu Th 10:35-11:50.*

## **ASTRONOMY COURSES**

For descriptions see the Columbia College Bulletin.

## **AST C 1103x. Contents of the Universe.**

Instructor to be announced.

*4 points. Lecture Tu Th 1:10-2:25.*

*Laboratory hours to be arranged.*

## **AST C 1104y. Topics in Cosmology.**

Instructor to be announced.

*4 points. Lecture Tu Th 1:10-2:25.*

*Laboratory hours to be arranged.*

## **AST C 1203x. Introduction to Astrophysics.**

Instructor to be announced.

*3 points. M W 11:00-12:15.*

## **AST C 3102y. Planetary Dynamics and Physics of the Solar System.**

Instructor to be announced.

*3 points. M W 11:00-12:15.*

## **AST C 3997x, AST C 3998y. Seminar and Research Course.**

Staff.

*3 points. Hours to be arranged.*

## **AST W 3301y. Black Holes.**

E. Spiegel.

*Offered in alternate years. Not offered in 1984-85.*

*3 points.*

## **AST W 3302y. General Relativity, Cosmology, and Black Holes.**

Instructor to be announced.

*Offered in alternate years.*

*3 points. Tu Th 2:40-3:55.*

## **AST G 4201x. Basic Astronomical Data.**

Instructor to be announced.

*3 points. Tu Th 1:10-2:25.*



# Political Science

Office: 407 Lehman Hall

Telephone: 280-2159

**Professors**

Demetrios Caraley (Chairman), Dennis Dalton, Peter Juviler<sup>1</sup>

**Associate Professor**

Richard M. Pious

**Assistant Professors**

Leslie Calman, Ester Fuchs, Thomas Gais, Debra Miller, Kathryn Yatrakis (Departmental Representative)

**Lecturer**

Flora Davidson

Other officers of the University offering courses listed below:

**Professors**

Thomas P. Bernstein, Seweryn Bialer, Douglas A. Chalmers, Gerald L. Curtis, Herbert A. Deane, Julian H. Franklin, Charles V. Hamilton, Roger Hilsman, Robert Jervis, Andrew Nathan, Joseph Rothschild, John Gerard Ruggie, Giovanni Sartori, Warner R. Schilling, Alan F. Westin

**Associate Professor**

Ethel Klein

**Assistant Professors**

Robert Amdur, Thomas Callaghy, Harvey Goldman, Glenda Rosenthal, Robert Shapiro, Eric Smith, Jack Snyder

<sup>1</sup>Absent on leave, Autumn Term

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

**REQUIREMENTS FOR THE MAJOR**

A student majoring in **Political Science** is required to take a minimum of nine semester courses from the Department's listed offerings, including

Political Science BC 3001                      *Dynamics of American Politics*

One of the following courses

Political Science V 3505                      *Comparative Politics*

Political Science V 3611                      *International Politics*

Political Science BC 3013, BC 3014      *Political Theory*

Two colloquia or other courses having a research paper from among those courses designated by an asterisk (\*); and

Two semesters of research seminar for the thesis (see below).

# Political Science

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, **both majors and concentrators are required to write a senior essay** as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

A student majoring in **Urban Affairs** with a concentration in political science is required to take a minimum of six semester courses, including

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>
Two from the following courses:	
Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Problems in Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8202	<i>Colloquium on Congress and Policymaking</i>

Two semesters of research seminar for the thesis.

## REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

### COURSES OF INSTRUCTION

Courses listed under this heading may be taken without previous study of political science.

#### POS BC 3001x, POS BC 3001y. Dynamics of American Politics.

Examination of the dynamics of the American political system at the national level including political participation, elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary.—Staff.

*Sign-up sheets for sections are posted outside 408 Lehman.*

3 points.

*Credit is not granted for both this course and C 3305.*

x: Section I M W 11:00-12:15. R. Pious.

Section II. Not offered in 1984-85.

Section III Tu Th 10:35-11:50. T. K. Gais.

y: M W 11:00-12:15. R. Pious. (V)

#### POS V 3505x, POS V 3505y. Introduction to Comparative Politics.

An introduction to major issues and theories in comparative politics.

3 points.

x: M W 4:10-5:25. P. Oldenburg.

y: Tu Th 10:35-11:50. P. Juviler. (V)

#### POS W 4311x. American Parties and Elections.

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties.—E. Fuchs.

3 points. M W 11:00-12:15. (V)

#### POS BC 3004y. Freshman Seminar in Government.

Intensive study of a topic to be selected by the instructor. Students learn methods and sources of political science and gain experience in discussion and writing.—Instructor to be announced.

*Topic for Spring 1985: to be announced in November.*

4 points.

*Hours to be arranged in November.* (V)

#### POS BC 3007x. Modern Political Movements.

Dynamics of movement politics in the twentieth century. Factual and moral analysis; case studies of Bolshevism, Indian nationalism, Nazism, the New Left, and the women's movement.—L. Calman.

3 points. Tu Th 10:35-11:50. (V)



## **POS V 3313y. American Urban Politics.**

Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems.—K. Yatrakis.

3 points. *M W 2:40-3:55.* (V)

## **POS V 3611x, POS V 3611y. International Politics.**

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

*x: Section I M W 2:40-3:55. D. Miller.*

*Section II Tu Th 6:10-7:25. F. Kratochwil.*

*y: Tu Th 9:10-10:25. R. Jervis.* (V)

## **POS BC 3012y. The United Nations in International Politics.**

Role of international organizations in world politics. Issues focused on include arms control and disarmament, nuclear proliferation, and human rights as well as international trade and multinational corporations. Experiences of the League of Nations, the United Nations, the European Community, and other contemporary international and regional organizations are considered.—D. Miller.

3 points. *M W 2:40-3:55.* (V)

## **POS BC 3013x, POS BC 3014y. Political Theory.**

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change.—D. Dalton.

3 points. *Tu Th 1:10-2:25.* (V)

## **SPECIALIZED COURSES**

### **\*POS BC 3345x. Colloquium on Statistical Analysis of Politics and Policy.**

Descriptive and inferential statistics in analysis of problems in the political process and public policy; practical applications; introduction to the use of the computer in statistical analysis.—E. Fuchs.

*Prerequisite: BC 3001 and permission of the instructor. Enrollment limited.*

4 points. *M W 2:40-3:55.* (V)

## **AMERICAN GOVERNMENT AND POLITICS**

### **POS V 3316x. The American Presidency.**

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious.

*Prerequisite: BC 3001 or the equivalent.*

3 points. *M W 4:10-5:25.* (V)

### **POS BC 3322y. The American Congress.**

Dynamics, organization, and policy-making processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.—T. Gais.

*Prerequisite: BC 3001 or the equivalent.*

3 points. *Hours to be arranged.* (V)

### **POS BC 3325x. The Judicial Process.**

Introduction to the American judicial system; origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, and controversies over judicial review and the commerce clause.—Instructor to be announced.

*Prerequisite: BC 3001 or a course in American history.*

*Not open to students who have taken W 3399.*

3 points. *Not offered in 1984-85.* (V)

### **POS BC 3326y. Problems in Civil Rights and Liberties.**

Legal, political and social context of basic issues primarily in freedom of expression, and racial, sexual and voting discrimination.—Instructor to be announced.

*Prerequisite: BC 3001.*

3 points. *Not offered in 1984-85.* (V)

### **POS W 3399x. The Supreme Court and American Politics.**

Role of the judiciary and constitutional law in American politics; U.S. Supreme Court, civil liberties, civil rights, federalism, and economic and social regulations. Students write case studies of recent Supreme Court decisions.—A. Westin.

*Prerequisite: BC 3001 and junior standing.*

*Not open to students who have taken BC 3325.*

3 points. *M W 11:00-12:15.* (V)

### **POS W 3400y. Law and Politics of Civil Liberties.**

A survey of existing law on civil liberties and rights, followed by discussion of issues of democratic theory, the role of groups in bringing test cases, and the dynamics of civil liberties litigation and conflict, covering topics such as political surveillance, racial equality, church-state issues, consumer rights, women's rights, and other issues.—A. Westin.

*Prerequisite: Open only to juniors and seniors who have had a course in American government or constitutional law. Not open to students who have taken BC 3326.*

3 points. *M W 11:00-12:15.* (V)

### **POS V 3328x. Women and American Politics.**

Analysis of changes and continuities in the roles of women as they have been involved in and affected by American politics and public policy.

—E. Klein

*Prerequisite: BC 3301, C 3305, or permission of the instructor.*

3 points. *Tu Th 2:40-3:55.* (V)

# Political Science

## **\*POS BC 3327x. Colloquium on the Content of American Politics.**

Readings, discussions and reports on changing cleavages and issues in American national politics over time including the relationship among political parties, interest groups, elections and public policy.—T. Gais.

*Prerequisites: BC 3001 and permission of the instructor.*

4 points. Tu 2:10-4:00. (V)

## **\*POS BC 3331y. Colloquium on American Political Decisionmaking.**

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition.—R. Pious.

4 points. W 2:10-4:00. (V)

## **\*Urban Affairs UAF BC 3535x. Colloquium in Urban Administration and Management.**

Processes of administration and management in urban organizations. Executive leadership, decisionmaking, bureaucracy, budgeting and personnel.—K. Yatrakis.

*Prerequisite: BC 3001 or V 3313 or the equivalent. Enrollment limited to ca. 20 students.*

4 points. Tu 2:10-4:00.

## **Urban Affairs UAF BC 3537x. Workshop in Urban Administration and Management.**

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week.—K. Yatrakis.

*Corequisite: Urban Affairs BC 3535.*

2 points. Biweekly meeting to be arranged.

## **POS G 4238x. Public Opinion and Voting Behavior.**

A survey of the theoretical and empirical literature on individual political behavior. The nature of measurement of political behavior. The nature of measurement of political attitudes, the distribution of knowledge and attitudes, ideology, party identification, socialization, participation, presidential and congressional voting and other topics will be discussed.—E.R.A.N. Smith.

*Prerequisite: junior or senior standing and permission of the instructor.*

3 points. W 4:10-6:00.

## **\*POS V 3711y. Section IV. Colloquium on Crisis and American Political Institutions.**

An analysis of the way the American political system responds to extraordinary emergency (crisis) situations.

*Prerequisites: BC 3001 and permission of the instructor.*

*Not offered in 1984-85.*

4 points.

## **\*POS V 3712y. Section VI. Colloquium on Race and Ethnicity in American Politics.**

Comparative analysis of political recruitment, activity and access with a historical orientation. *Prerequisites: BC 3001 and permission of the instructor.*

*Not offered in 1984-85.*

4 points.

## **\*POS G 8202y. Colloquium on Congress and Policymaking.**

Role of Congress in national policymaking. Influence of committees, party leaderships, staffs, the President, interest groups, and constituencies; case studies of congressional policymaking.—D. Caraley.

*Prerequisites: BC 3001, junior standing and permission of the instructor.*

*Enrollment limited to 15 students.*

3 points. *Not offered in 1984-85.*

## **FOREIGN GOVERNMENTS AND POLITICS**

## **\*POL BC 3220x. Colloquium on Communism and Revolutionary Change.**

Nature, causes and consequences of revolution; approaches to revolution of the major types of workers' and peasants' revolutionism.—L. Calman.

*Prerequisites: V 3501, BC 3007, or BC 3221, or the equivalent. Permission of the instructor required.*

4 points. Th 2:10-4:00. (V)

## **\*POL BC 3221x. Colloquium on the Politics of Social Change in the U.S.S.R.**

Soviet conception of human rights and authority; Stalinization and de-Stalinization; case studies of the rights, obligations, and behavior of Soviet citizens as producers and consumers, family members, participants in criminal justice, dissidents, etc., as aspects of the interaction between regime and society.—P. Juviler.

*Prerequisites: V 3501 or BC 3007, or Soviet politics or history. Admission by application only, available in 408 Lehman.*

*Not offered in 1984-85.*

4 points. (V)

## **POL W 3502x. Political Change in the Third World.**

Impact of the world market, multinational corporations, and colonialism on non-Western societies. Political issues arising from social and economic changes; political choices facing peasants, intellectuals, and ethnic minorities; strategies to overcome underdevelopment, including revolution and reform, critical analysis of theories of modernization, dependency, and historical materialism.

—T. Callaghy.

3 points. Tu Th 1:10-2:25. (V)

## **POL W 3018y. Authoritarianism and Democracy.**

Political regimes, the conditions of their emergence



and the causes of their demise. Cases drawn particularly from the waves of fascism and military-authoritarianism in Europe and the rise and possible transformation of military regimes in Latin America.—F. Wolfe.

3 points. *M W 4:10-5:25.* (V)

## **POL W 3522x. Communist Political Systems.**

Comparative study of Marxist-Leninist states with emphasis on the Soviet Union and China plus some attention to other cases. Analysis of revolutions, processes of societal transformation, patterns of rule, as well as problems of adaptation and reform.—T.P. Bernstein.

3 points. *M W 6:10-7:25.* (V)

## **POL W 3530y. Political Participation and Democracy in Comparative Perspective.**

The comparative analysis of political participation in states of different kinds (liberal democracies, socialist states, modernizing countries), including who participates, how and with what effect; and the study of diverse definitions and ideals of democracy.—G. Curtis.

3 points. *Tu Th 9:10-10:35.* (V)

## **POL W 3540x. Ethnicity and Politics.**

The impact of rising ethnonationalism (as defined by religious, linguistic, regional, racial, kinship, and related criteria) on intrastate and interstate politics; the relationship of ethnic stratification to socioeconomic stratification under various structural patterns and models—and the political dynamics generated thereby; the historical contingencies that facilitate the mobilization, exacerbation, or amelioration of ethnopolitical assertiveness and conflict; the role of political elites and counterelites in the management of these issues.—J. Rothschild.

3 points. *M W 2:40-3:55.* (V)

## **POL G 4472x. Japanese Politics.**

Introduction to contemporary Japanese politics and major foreign policy issues; issues of concern in the analysis of Western democratic policies in the Japanese context.—G. Curtis.

*Prerequisite: Comparative Politics.*

3 points. *Th 9:00-10:50.*

## **POL G 4415y. Social and Political Institutions in Italy Today.**

Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.

3 points.

*Th 4:00-6:00, and third hour for Italian-speaking students, to be arranged.*

## **POL G 4460x. Latin American Politics.**

Origins and structure of some of the major political problems facing Latin America. Comparative analysis of contrasting development strategies in Brazil and Chile against Cuba and Nicaragua. Special attention to theories of the state, resistance to

authoritarianism, the new role of the church, and to transnational relationships, dependency, the debt crisis, and U.S. policy toward Central America.—A. Stepan.

*Prerequisite: Comparative Politics.*

3 points. *Th 11:00-12:50.*

## **POL G 4487y. The Dynamics of Soviet Politics.**

Marxism-Leninism in Soviet politics; role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; balance of political forces and pressures in the Soviet state.—S. Bialer.

*Prerequisite: Comparative Politics.*

3 points. *Tu 9:00-10:50.*

## **POL G 4445x. Politics in the Middle East and North Africa.**

A comparative analysis of political organizations, institutions, and groups in a predominantly Muslim region mostly comprising states that are newly sovereign.—Z. Khalilzad.

*Prerequisite: Junior or senior standing and permission of the instructor.*

3 points. *W 4:10-6:00.*

## **POL G 4471y. Chinese Politics.**

Selected aspects of contemporary Chinese politics, including the causes and character of the Chinese revolution, the transformation worked in Chinese society by the revolutionary government, political conflict, and the goals of government policies and the problems of carrying them out.—A. Nathan.

*Prerequisite: Junior or senior standing and permission of the instructor.*

3 points. *Th 2:10-4:00.*

## **POL G 4496y. Contemporary African Politics.**

Nation-building in Black Africa: African socialism, the one-party system, and military intervention in politics. African international relations: neocolonialism, Pan Africanism, neutralism, and nonalignment. The African revolution.

—T. Callaghy.

*Prerequisite: Junior or senior standing and permission of the instructor.*

3 points. *W 11:00-12:50.*

## **POLITICAL THEORY**

### **\*BC 3416y. Colloquium on Personality and Politics.**

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders.—F. Davidson.

*Permission of the instructor required.*

*Enrollment limited to 16 students. Application form must be submitted to the instructor at end of Autumn term for acceptance into the course.*

4 points. *Tu 2:10-4:00.* (V)

# Political Science

## **\*BC 3423x. Colloquium on Nonviolence.**

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in twentieth century America and Europe.—D. Dalton.

*Not offered in 1984-85.*

4 points. (V)

## **\*BC 3424y. Colloquium on Asian Politics.**

Comparative analysis of national experiences and political ideas and political development in India and China.—L. Calman.

*Prerequisite: V 350I or permission of the instructor. Enrollment limited to 20 students.*

4 points. Tu 2:10-4:00.

## **BC 3433y. Colloquium on Concepts of Political Theory.**

Relationship between political theory and political science; selected theoretical concepts and problems within the context of classical and modern theorists, and their pertinence, utility, and limitations for their understanding of contemporary domestic and international politics.—L. Calman.

*Permission of the instructor required.*

4 points. Th 2:10-4:00. (V)

## **POL W 3404y. Marxism.**

Marx's social and political thought, revisionists and fundamental critics, and selected contemporary approaches to Marxist theory. Marx, Bernstein, Lenin, Sorel, Mannheim, Freud, Marcuse, Sartre, and others.—H. Goldman.

3 points. Tu Th 10:35-11:50. (V)

## **POL W 3411x. Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State.**

Leading political theorists in their historical contexts: Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, the Monarchomachs, and Bodin.—J. H. Franklin.

3 points. Tu Th 10:35-11:50. (V)

## **POL W 3412y. Modern Political Thought: From the Seventeenth Century to the Present.**

Analysis and discussion of the arguments of major political theories, and of the transformation of political theory in the 19th century. Topics include the theories of social contract, the character of liberalism and the role of property, the relation of freedom and equality in democratic society, the rise of capitalism and its analysis and critique. Among the authors considered are Hobbes, Locke, Rous-

seau, Burke, Tocqueville, Mill, Hegel, and Marx.—J. Jacobs.

3 points. M W 2:40-3:55. (V)

## **POL W 3420x. Democratic Theory.**

The theory of democratic government; some major 19th- and 20th-century critics of democracy; and several problems in democratic thought, e.g. representation, civil liberties, the relationship between political and economic equality.—R. Amdur.

3 points. (V)

## **\*W 3833x. Colloquium on Political Ideas.**

Selected problems in contemporary political philosophy.—J. H. Franklin.

*Prerequisite: BC 3013, BC 3014 or equivalent, and permission of the instructor.*

4 points. W 4:10-6:00. (V)

## **INTERNATIONAL RELATIONS AND FOREIGN POLICY**

### **\*BC 3118x. Colloquium on Problems in International Politics.**

Readings, discussions, and presentations on selected problems in international politics.—D. Miller.

*Prerequisite: Course V 361I and permission of the instructor.*

4 points. Tu 2:10-4:00. (V)

### **POL V 3612y. International Politics II: Advanced Topics in International Politics.**

Selected topics in international relations. The content of the course varies from year to year, but topics considered generally include nationalism, imperialism, integration, arms racing, deterrence, and world systematic change.—J. Ruggie.

*Prerequisite: Course V 361I.*

3 points. M W 2:40-3:55. (V)

### **POL C 3655x. American Strategies in World Politics.**

Major revolutions in American foreign policy; World Wars I and II, and the response to nuclear weapons.—W. Schilling.

*Prerequisite: junior standing.*

3 points. M W 11:00-12:15. (V)

### **POL W 3656y. The Politics of Policymaking in Defense and Foreign Affairs.**

Political process by which foreign and defense policy is made in the United States, including the roles of the President, Congress, State Department, CIA, the military, the press, interest groups, the attentive public, and the electorate; conceptual models of the politics of policymaking.—R. Hilsman.

*Prerequisite: junior standing.*

3 points. M 4:10-6:00.

*Discussion hours to be arranged.* (V)



**POL W 3616y. Approaches to World Order.** Philosophical perspectives and the social, economic and political conditions underlying different approaches to world order.—S. Mendlovitz. 3 points. Hours to be arranged. (V)

**POL W 3630x. The Politics of International Economic Relations.** Introduction to the political and historical dimensions of the international economy. Political aspects of trade, monetary systems, foreign investment, aid, dependency, global interdependence.—J. Conybeare. 3 points. Tu Th 2:40-3:55. (V)

## COURSES FOR MAJORS AND CONCENTRATORS ONLY

**Political Science-Sociology PSS V 3994x-PSS V 3995y. New York Area Undergraduate Research Program.** An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. Topic for 1984-85 to be announced.—E. Fuchs. *Prerequisite: Enrollment limited to 10-15 students, selected by application only to the instructor. Junior or senior standing is required. Participation is for two terms.* *Note: Barnard Urban Affairs majors with a Political Science concentration have the option to use this course to satisfy the senior thesis requirement with the approval of the Political Science department.* 4 points. Tu 4:10-6.

**POL G 4910x. Principles of Quantitative Political Research.** Introduction to statistical analysis and data processing. Principles of statistical inference and the logic of hypothesis testing.—R. Shapiro. *A written report is required.* 3 points. Tu Th 10:35-11:50.

**POL G 4911y. Analysis of Political Data.** Applications of multivariate statistical techniques to political data. Practical questions of research and data processing.—R. Shapiro. *Prerequisite: Course G 4910 or permission of the instructor. A written report is required.* 3 points. Tu Th 10:35-11:50.

## SENIOR SEMINARS

Admission to particular sections of the senior seminar is limited. During Spring preregistration students must obtain departmental approval for the section desired in the senior seminar.

**POL V 3711x-POL V 3712y. Research Seminar in American Politics.** Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics.—Staff. 4 points.

<i>Section I</i>	Tu 4:10-6:00. D. Caraley.
<i>Section II</i>	W 4:10-6:00. K. Yatrakis.
<i>Section III</i>	x: Th 4:10-6:00. E.R.A.N. Smith y: Th 4:10-6:00. E. Klein.
<i>Section IV</i>	x, y: M 11:00-12:50. R.W. Pearson.
<i>Section V</i>	Th 4:10-6:00. T. Gais.
<i>Section VI</i>	x, y: M 4:10-6:00. R. Shapiro.
<i>Section VII</i>	W 4:10-6:00. Instructor to be announced.

**POL BC 3761x-POL BC 3762y. Research Seminar.** Discussion and conferences on the researching and writing of the senior essay.—Staff. 4 points.

<i>Section I</i>	Th 4:10-6:00. P. Juviler.
<i>Section II</i>	Tu 4:10-6:00. D. Dalton.
<i>Section III</i>	Tu 4:10-6:00. D. Miller.

## GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and the School of International Affairs.

# Psychology

*Office: 415 Milbank Hall*

*Telephone: 280-2069*

## **Professors**

Lila Ghent Braine (Chairman), Rae Silver,<sup>1</sup> Richard P. Youtz<sup>2</sup>

## **Visiting Professor**

Thomas Perera

## **Associate Professors**

Peter Balsam,<sup>1</sup> Barbara S. Schmitter<sup>1</sup>

## **Visiting Associate Professor**

Fernando Alvarez

## **Assistant Professors**

Lawrence Aber, Julie Blackman, Jan Rabinowitz, Robert Remez, Tracey A. Revenson, Christina L. Williams

## **Adjunct Assistant Professors**

Howard Andrews, William Fifer, Jacqueline Fleming, Robin Garfinkel, Marsha Levy-Warren, Wendy McKenna, Shanna Richman, Barbara Schechter, Sandra F. Stingle

<sup>1</sup>Absent on leave, 1984-85

<sup>2</sup>Emeritus and Special Lecturer

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babblings of infants to creative intellectual behavior, from understanding sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, leadership, and intimate violence.

Common to all areas of psychology is a concern with adequate and appropriate methodology. The student will be exposed, therefore, to many psychological facts and to the methods of their discovery through lecture, laboratory, field courses, and various other offerings.

Opportunities are available for supervised research, teaching, and field experiences. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services provide a different sort of direct contact with the raw material of psychology.

The department sponsors a Psychology Club.

Psychology as a major is a good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and exposure to material the student may never encounter formally again.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$15 is charged for each laboratory course: BC1105, BC1108, BC1117, BC1127, BC1130, BC1136, and BC3256.

Students interested in Biopsychology should consult page 79.

## **REQUIREMENTS FOR THE MAJOR**

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College.



Psychology BC1001	<i>Introduction to Psychology</i> (prerequisite for further psychology courses)
Psychology BC1609	<i>Statistics</i> (preferably in the sophomore year)
One course chosen from:	
Psychology BC1105	<i>Psychology of Learning</i>
Psychology BC1130 or BC1132	<i>Human Learning and Memory</i>
One course chosen from:	
Psychology BC1125	<i>Psychology of Personality</i>
Psychology BC1136 or BC1138	<i>Social Psychology</i>
Psychology BC3141	<i>Abnormal Psychology</i>

In choosing her four electives, a student should try to achieve a balance in her training by taking at least one course from each of the following categories:

- Developmental, Social, Clinical: BC1125, BC1127 or BC1129, BC1136 or BC1138, BC3141, BC3151, BC3158, BC3161, BC3371, BC3372, BC3473
- Methodology and Research: BC3168, BC3256, BC3591-3592, BC3599, W4107
- Physiological, Perception, Learning: BC1105, BC1108 or BC1110, BC1117 or BC1119, BC1130 or BC1132, BC3154, BC3160, BC3164, BC3169, BC3374

A maximum of two of the following courses may count towards the major: BC3465, BC3466, BC3591, BC3592, BC3498, and BC3599.

The three required courses in related disciplines should be distributed as follows: a one-year laboratory course sequence in either biology, chemistry, or physics; a course from one of the cognate disciplines: anthropology, linguistics, sociology, philosophy, economics.

The eight required psychology courses must be taken for a letter grade; the grade must be C – or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC3591-BC3592, *Senior Research Seminar*.

When in doubt, the student should consult with her major adviser, whom she should select when she decides to major in psychology, and who will be her chief academic adviser. The student may select the appropriate adviser in consultation with the administrative assistant or chairman.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC1001, BC1609 and one laboratory course. Two additional electives, excluding Psychology BC3465-3466, BC3591-3592, BC3498, and BC3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

**PSY BC 1001x, PSY BC 1001y. Introduction to Psychology.**  
Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.)—Staff.  
*This course is prerequisite for all other Psychology courses. Preregistration in the department is required. Enrollment is limited to 45 students per section.*

- 3 points.
- x: Section I Tu Th 1:10-2:25. A. Berman.
  - Section II M W F 10:00. Instructor to be announced.
  - Section III M W F 10:00. F. Alvarez.
  - Section IV M W F 11:00. J. Blackman.
  - Section V M W F 1:00. F. Alvarez.
  - Section VI Tu Th 9:10-10:25. S. Richman.
  - Section VII Tu Th 1:10-2:25. T. Perera.
  - y: Section I Tu Th 9:10-10:25. R. Remez.
  - Section II M W F 11:00. C. Williams.
  - Section III Tu Th 1:10-2:25. F. Alvarez.
  - Section IV M W 2:40-3:55. W. McKenna.

# Psychology

## LOWER LEVEL COURSES

### **PSY BC 1105x. Psychology of Learning.**

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects. —Instructor to be announced.

*Prerequisite: BC 1001. Enrollment limited to 60 students.*

*4½ points.*

*Lecture Tu Th 11:00-12:15. One hour reading evaluation to be arranged. Laboratory W Th 2:00-5:00, F 1:00-4:00.*

### **PSY BC 1108x. Perception.**

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings.—Instructor to be announced.

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students.*

*4½ points.*

*Lecture M W 11:00-12:15.*

*Laboratory M or Tu 1:00-4:00.*

### **PSY BC 1609x, PSY BC 1609y. Statistics.**

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments.

*Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section.*

*4 points.*

*x: Section I. M W 1:10-2:25. R. Garfinkel.*

*Recitation M or W 10:00-12:00.*

*Section II. Tu Th 2:40-3:55. J. Rabinowitz.*

*Recitation Tu or Th 11:00-1:00.*

*y: Section I. M W 1:10-2:25. R. Garfinkel.*

*Recitation M or W 10:00-12:00.*

*Section II. Tu Th 4:00-5:15. H. Andrews.*

*Recitation M 10:00-12:00 or Tu 10:30-12:30.*

### **PSY BC 1110x. Perception.**

Same as BC 1108, but without the laboratory. — R. Remez.

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 15 students.*

*3 points. M W 11:00-12:15.*

### **PSY BC 1117x. Physiological Psychology.**

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory proc-

essing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory.—C. Williams and assistants.

*Prerequisite: BC 1001. Enrollment limited to 40 students.*

*4½ points.*

*Lecture M W 1:10-2:25.*

*Laboratory W 2:30-5:30 or Th 1:00-4:00.*

### **PSY BC 1119x. Physiological Psychology.**

Same as BC1117x, but without laboratory.—C. Williams.

*Prerequisite: BC 1001. Enrollment limited to 20 students.*

*3 points. M W 1:10-2:25.*

### **PSY BC 1125x. Psychology of Personality.**

Survey of the area, major theorists; research utilizing personality variables; implicit and explicit personality theories of various types of people; articulation of the dialectic between explanations as a function of personality and explanations as a function of situational determinants.—F. Alvarez.

*Prerequisite: BC 1001 or permission of the instructor.*

*3 points. M W F 11:00.*

### **PSY BC 1127x, PSY BC 1127y. Developmental Psychology.**

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered.—x: L. Braine and assistants; y: L. Aber and assistants.

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 48 students.*

*4½ points.*

*Lecture M W 1:10-2:25.*

*Laboratory M or Tu 2:30-5:30.*

### **PSY BC 1129x, PSY BC 1129y. Developmental Psychology.**

Same as BC 1127, but without laboratory.— x: B. Schecter; y: L. Aber.

*Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 20 students.*

*3 points. M W 1:10-2:25.*

### **PSY BC 1130y. Human Learning and Memory.**

Survey of contemporary theories of human memory with an emphasis on a comparison between structural and process models. Topics will include primary memory, secondary memory, levels of processing, organization and encoding specificity. Special topics will include eyewitness testimony, metamemory, development of memory, and the effects of alcohol and other drugs on memory. The



laboratory consists of experiments related to these topics.—J. Rabinowitz and assistants.

*Prerequisite:* BC 1001 or permission of the instructor. Enrollment limited to 48 students.

4½ points.

*Lecture* M W 11:00-12:15.

*Laboratory* M 2:30-5:30 or Tu 1:00-4:00.

## **PSY BC 1132y. Human Learning and Memory.**

Same as BC 1130, but without laboratory.—J. Rabinowitz.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points. M W 11:00-12:15.

## **PSY BC 1134x. Educational Psychology.**

Major theories and issues in human psychological development fundamental to education. The course will examine the implications of psychological knowledge for use in classroom teaching. Students have the opportunity to observe elementary and secondary school classes.—B. Schechter.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points. M W 11:00-12:15.

## **PSY BC 1136y. Social Psychology.**

Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction, aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research. —J. Blackman and assistants.

*Prerequisite:* BC 1001 or permission of the instructor. Enrollment limited to 50 students.

4½ points.

*Lecture* Tu Th 9:10-10:25.

*Laboratory* W or Th 1:00-4:00.

## **PSY BC 1138y. Social Psychology.**

Same as BC 1136, but without laboratory.—J. Blackman.

*Prerequisite:* BC 1001 or permission of the instructor. Enrollment limited to 25 students.

3 points. Tu Th 9:10-10:25.

## **MIDDLE LEVEL COURSES**

### **PSY BC 3141x, PSY BC 3141y. Abnormal Psychology.**

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy.—x: A. Berman; y: F. Alvarez.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points.

x: Tu Th 9:10-10:25.

y: Tu Th 10:35-11:50.

### **PSY BC 3151x. Organizational Psychology.**

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict, decision making, and communications.

—T. Revenson.

*Prerequisite:* BC 1001. Enrollment limited to 45 students.

3 points. Tu Th 1:10-2:25.

### **PSY BC 3152 y. Psychological Aspects of Human Sexuality.**

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes towards sexuality.—W. McKenna.

*Prerequisite:* BC 1001. Enrollment limited to 30 students.

3 points. M W 1:10-2:25.

### **PSY BC 3154x. Hormones and Reproductive Behavior.**

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental, and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are **not** prerequisites.—R. Silver.

*Prerequisite:* BC 1001 or Biology BC 1101- BC 1102.

Enrollment limited to 45 students.

Not offered in 1984-85.

3 points.

### **PSY BC 3256y. Psychological Measurement.**

Introduction to test theory, including test construction, standardization, reliability, validity, and item analysis. Other topics include: use of psychological tests in assessing intelligence, abilities, aptitudes, and personality; application of psychological tests in educational assessment and employee selection; legal issues in the use of psychological testing; unfair discrimination.—T. Revenson and assistant.

*Prerequisite:* BC 1001.

4½ points.

*Lecture* M W 11:00-12:15.

*Laboratory* Th 1:00-4:00.

# Psychology

## **PSY BC 3257y. Psychological Measurement.**

Same as BC 3256y but without the laboratory.—T. Revenson.

*Prerequisite:* BC 1001. Enrollment limited to 20 students.

3 points. M W 11:00-12:15.

## **PSY BC 3158x. Human Motivation.**

Empirical study of human motivation with emphasis on motives in fantasy, action and society. Surveys different approaches to the study of human motives and their scientific status. Discusses the development of motives in childhood, their behavioral and societal manifestations. Particular emphasis is given to need for achievement, need for power, need for affiliation, fear of failure, fear of success.—J. Fleming.

*Prerequisite:* BC 1001. Offered in alternate years. Not offered in 1984-85.

3 points.

## **UPPER LEVEL COURSES**

## **PSY BC 3160x. Cognitive Psychology.**

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, pattern recognition, imagery, categorization, problem solving, reasoning, and language.

—J. Rabinowitz.

*Prerequisites:* BC 1130 or BC 1132 or permission of the instructor. Enrollment limited to 20 students.

Offered in alternate years.

Not offered in 1984-85.

3 points.

## **PSY BC 3161x. Introduction to the Psychotherapeutic Process.**

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus on assessment, choice of treatment, psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change.—M. Levy-Warren.

*Prerequisites:* BC 1001 and any two of the following courses: *Personality, Abnormal Psychology, Developmental Psychology, Human Motivation*, or permission of instructor.

3 points. M W 1:10-2:25.

## **PSY BC 3164y. Perception and Language.**

Psychological investigations of spoken communication from listener's perspective. Topics include perception of the sounds of speech and the apprehension of meaning from words and utterances; the perceptual basis for rhyme and rhythm in speech; and the natural history of vocal communication.—R. Remez.

*Prerequisites:* BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130, or equivalent. Enrollment limited to 20 students. Offered in alternate years. Not offered in 1984-85.

3 points.

## **PSY BC 3465x, BC 3466y. Field Work and Research Seminar: Barnard Toddler Center.**

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates theory, research, and practice.—L. Aber.

*Prerequisites:* BC 1127 and permission of the instructor. Permission should be requested in the spring of the year preceding registration. Enrollment limited to ca. 12 students.

4 points. Tu 12:00-2:00.

## **PSY BC 3167y. History and Systems of Psychology.**

Development of the discipline of psychology examined in the context of significant events occurring in other fields (philosophy, other sciences) and in society. Major schools of psychology: Structuralism, Functionalism, Behaviorism, Gestalt Psychology and Psychoanalytic Theory.—L. Braine.

Open to juniors and seniors who have had BC 1001 and two other courses in psychology or permission of the instructor. Offered in alternate years. Not offered in 1984-85.

3 points.

## **PSY BC 3168x, PSY BC 3168y. The Design of Experiments.**

Research reports studied through nonstatistical analysis of procedures and justifiable conclusions. Research stages include: speculation, measurement, observed relation, experiment, and theory construction; applications to current publications. Each student writes a term paper analyzing five experimental research reports in an area of her interest.—R. Youtz.

*Prerequisite:* BC 1001. Enrollment limited to 10 students.

3 points. Tu Th 9:10-10:25.

## **PSY BC 3169y. Developmental Psychobiology.**

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behaviors (e.g., feeding, sex, learning).—C. Williams.



*Prerequisites: BC 1001 and one other course in biology or psychology. Enrollment limited to 20 students. Offered in alternate years. 3 points. M W 2:40-3:55.*

## SEMINARS

### **PSY BC 3370x, PSY BC 3370y. Special Topics. x: I. Psychological Analysis of Racism.**

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. —J. Fleming.

*Prerequisite: BC 1001 and permission of the instructor. Enrollment limited to 20 students. Offered in alternate years. 4 points. W 4:10-6:00.*

### **PSY BC 3371x. Psychology and Women.**

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories, psychological aspects of special female experiences (e.g., menstruation, childbirth, abortion); women and therapy; women at work; and the science of psychology as it affects women. —J. Blackman.

*Prerequisites: BC 1001 and two other psychology courses, and junior or senior standing. Enrollment limited to ca. 20 students. 4 points. M 2:10-4:00.*

### **PSY BC 3372y. Topics in Developmental Psychology.**

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices. —L. Braine.

*Prerequisite: BC 1001 and two other psychology courses. Enrollment limited to 20 students. Not offered in 1984-85. 4 points.*

### **PSY BC 3473y. Field Work and Seminar in Psychological Services and Counseling.**

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussion of theoretical approaches to clinical problems and case materials. —S. Stingle.

*Prerequisites: 3 psychology courses and permission of the instructor. Permission of the instructor re-*

*quired during program planning the previous spring. Enrollment limited to 12 students; seniors given priority.*

*4 points. Tu 10:00-12:00 plus supervision to be arranged.*

### **PSY BC 3374y. Theories of Learning.**

Comparative study of major accounts of learning processes, including behavioral, cognitive, and biological theories. Evaluation of qualitative and quantitative models and their logical and empirical validity. —P. Balsam.

*Prerequisites: BC 1105 and junior or senior standing. Enrollment limited to 15 students. Offered in alternate years. Not offered in 1984-85. 4 points.*

### **PSY BC 3375y. Organization of Movement.**

Selected topics pertaining to the control of action: information for determining movement; planning an act; motor systems; stabilities; locomotion; skill; hierarchies of control; perceptual influences on planning and execution of acts. —R. Remez.

*Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. Enrollment limited to 20 students. 4 points. Tu 2:10-4:00.*

### **PSY BC 3376y. Infant Development.**

Analysis of human development during the first year of life. Perceptual, cognitive, sensory-motor, and social development will be examined, with emphasis on critical conditions involved in early learning and attachment. Other topics include prenatal development, "high-risk" infants, exploration and play, and language development. —W. Fifer.

*Prerequisites: BC 1001 and BC 1127 or BC 1129. Enrollment limited to 20 students. 4 points. Th 2:10-4:00.*

### **PSY BC 3377x. The Psychology of Aging.**

Discussion of the basic areas of adult behavior. Specific topics will include biological theories of aging with specific reference to physiological and neurological changes, an examination of intellectual and cognitive functioning, and discussion of personality changes and the social psychology of aging. —J. Rabinowitz.

*Prerequisites: BC 1001 and three other psychology courses. Enrollment limited to 25 students. Offered in alternate years. Not offered in 1984-85. 4 points.*

# Psychology

## **PSY W 4107y. Applications of Experimental Psychology.**

Actual and potential applications of basic research in many areas of psychology. Traditional approaches to clinical situations; alternative experimental approaches to therapy, institutional design, and social planning; clinical assessment, behavior modification, self-control, creativity, law, education, and the ethics of social control.—P. Balsam.  
*Prerequisites: Learning course and permission of the instructor. Enrollment limited to 15 students. Offered every three years. Not offered in 1984-85. 3 points.*

## **PSY W 4132y. Production and Perception of Language.**

Review of theories and current research on the processes of speech perception. Topics include the acoustic theory of phonetic differentiation, peripheral transduction, auditory and phonetic analysis, word recognition, phrase formation, and the effects of context in perception and production. Special topics include language perception and production in the deaf, perception of metaphor, and automatic speech recognition.—T. Bever and R. Remez.  
*Prerequisites: Psychology W 1501, W 3180, BC 3164 or TP 4398. 3 points. W 4:00-6:30.*

## **PSY BC 3591x, PSY BC 3592y. Senior Research Seminar.**

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination.—J. Rabinowitz.

*Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor. Prerequisites: BC 1609, a minimum of five other psychology courses must be completed, and permission of the instructor. 4 points. Hours to be arranged.*

## **PSY BC 3498y. Individual Projects—Field Work.**

Field work projects planned in consultation with the instructor.—S. Stingle.  
*Prerequisite: BC 3473 and permission of the instructor. Not offered in 1984-85. 4 points.*

## **PSY BC 3599x, PSY BC 3599y. Individual Projects.**

Research projects planned in consultation with members of the department.—Staff.  
*Open to majors on written permission of the department member who will supervise the project. 4 points. Hours to be arranged.*





# Quantitative Reasoning Program

Offices: 415G Milbank and Lehman Microcomputer Classroom      Telephone: 280-3930

This program is supervised by the Quantitative Reasoning Committee:

**Professor of Mathematics**

Joan S. Birman

**Associate Professor of Chemistry**

Sally Chapman

**Professor of Economics**

Duncan Foley

**Professor of Psychology**

Rae Silver (Director)

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard College Faculty.

**Requirement**

All students must pass one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or symbolic manipulation to solve problems. The requirement may be fulfilled by passing one of the courses indicated below or by passing a special course in Quantitative Reasoning (see below).

Regular courses that satisfy the Quantitative Reasoning requirement:

Chemistry	<i>BC 1601: General Chemistry 1</i> <i>C 1403, C 1404: General Chemistry</i>
Computer Science	<i>W 1003: Introduction to Computer Programming B</i> <i>W 1005: Introduction to Computer Programming C</i> <i>All other Computer Science department courses carrying degree credit except W 1001: Introduction to Computer Programming A</i>
Economics	<i>V 1411: Introductory Probability and Statistics for Economics</i>
Environmental Science	<i>W 3071, W 3072: Quantitative Techniques in Geography</i>
Mathematics	<i>V 0077: Pre-calculus (counts toward Quantitative Reasoning requirement. No degree credit).</i> <i>V 1007: Applied Linear Algebra</i> <i>V 1100: Brief Calculus</i> <i>V 1101: Calculus IA</i> <i>All other Mathematics courses carrying degree credit.</i>
Philosophy	<i>V 3411: Formal Logic A</i> <i>V 3415: Formal Logic B</i>
Physics	<i>All courses except BC 1001, BC 1002: Elementary Physics</i>
Political Science	<i>BC 3345: Colloquium on Statistical Analysis of Politics and Policy</i>
Psychology	<i>BC 1609: Statistics</i> <i>W 1920: Statistics for Behavioral Scientists</i>
Statistics	<i>V 1111: Introduction to Statistics</i> <i>All other Statistics department courses</i>

Note: A student may fulfill the requirement if she receives AP credit for a course equivalent to one of the above.

**Special Course in Quantitative Reasoning**

This course aims to introduce the student to mathematical concepts through the analysis of quantitative topics in other disciplines. This one semester course is made up of 3 units, each lasting 4 weeks. Each unit is taught by a different professor, whose area of interest lies in a discipline within either the social or the natural sciences, or in the humanities.

# Quantitative Reasoning Program

Each 4-week unit will be graded separately, and each unit will contribute  $\frac{1}{3}$  of the grade for the course. All 3 units must be taken in a single semester in order to complete the course. A diagnostic placement test is required prior to the course.

A student who plans to register for the Quantitative Reasoning course must pass a test that measures elementary areas of ability in mathematics. The test will be offered during registration and several times during the semester. A student who has difficulty with components of the test has two options:

- 1) She may take a five-week Basic Math Skills course, BC 1001, offered twice each semester. A student who passes this course will receive one point credit for it when she successfully completes the Quantitative Reasoning course.
- 2) She may undertake independent review of math skills and retake the diagnostic test. Computer-assisted instruction drill programs and texts for this purpose will be available in the Academic Computer Center in the Barnard College Library.

## **QUR BC 1001x, QUR BC 1001y. Basic Math Skills.**

R. Mizner.

*Tu Th 2:40-3:55.*

*1 point (upon completion of the Quantitative Reasoning course).*

## **QUR BC 1101x, QUR BC 1101y: Sequence A.**

*3 points. x: M W F 10:00-11:00, y: Hours to be arranged.*

- I. How can we decide that “sets of things,” such as observations or people, are alike or different? How should such groups be described and measured? Sampling, probability, and tests of significance will be applied to anthropological data. This introductory module will teach students to evaluate quantitative research and to plan their own.—N. Rothschild (Anthropology).
- II. How are population growth, financial transactions, and arrangement of leaves on a stem handled by a single theory—that of linear difference equations? Basic mathematical concepts such as percentage and exponents will be used, and the concept of recursion will be illustrated by the use of an electronic spreadsheet program.—H. M. Jaquet (Mathematics).
- III. Can a simple model of random events be applied to such phenomena as pedestrian traffic, airplane crashes, and the distribution of stars in the heavens? Introduction of fundamental

techniques of mathematical modeling will include the study and testing of the Poisson process.—D. Foley (Economics).

## **QUR BC 1102y: Sequence B.**

*3 points. M W F 1:10-2:00.*

- I. How can we know the size of something as accurately as possible without measuring it directly? Unknown rates, sizes, and volumes will be estimated using deductive reasoning, sampling, graphs, and algebraic methods. Topics will include linear and exponential growth functions, interpolation, correlation, and regression.—C. Williams (Psychology).
- II. How can we describe the patterns we see in cathedral windows, tiled floors, shells, and viruses? Different kinds of symmetry will be defined and classified: about a point, in a helix, and in repetition. The algebra of symmetry will be examined with the concept of the group and used to analyze the properties of group patterns.—L. Lessinger (Chemistry).
- III. Are vibrating strings, temperature cycles, patterns of daily activity, vowels, and rhythm and harmony in music related? Students will learn to make graphs of events that have recurring components and to analyze periodic phenomena according to Fourier’s theorem.—R. Remez (Psychology).



# Religion

Office: 219 Milbank Hall

Telephone: 280-2597, 8312

## Professors

Theodor H. Gaster,<sup>1</sup> Alan Segal (Chairman)<sup>2</sup>

## Assistant Professors

Marilyn Harran, Holland Hendrix (Acting Chairman), Brian Smith

Other officers of the University offering courses listed below:

## Professors

Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Alex Wayman

## Adjunct Professor

David Weiss-Halivni

## Assistant Professors

Peter J. Awn, Scott Davis, Arnold M. Eisen, Paul Watt

<sup>1</sup>Emeritus and Special Lecturer

<sup>2</sup>Absent on leave, 1984-85

Approaches to the study of religion are as diverse as the world's religious traditions themselves, perhaps because the religious experience we seek to understand is inseparable from the rich diversity of human life and culture. The student of religion encounters men and women as they explore the very boundaries of their perceptions of the real. It is the challenge provoked by this encounter that makes our common involvement in the academic study of religion so fascinating, even as it leads us to scrutinize and question the boundaries of our own world view.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by Barnard College and Columbia College offers a unique context for this interdisciplinary study through the superb resources they command. The areas of expertise of the religion faculty (philosophy of religion, sociology of religion, history of Eastern and Western religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes (e.g., Middle East, Southern Asian) explore in depth the linguistic, literary, and sociocultural milieu of a particular Eastern or Western religious tradition. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world, e.g., Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit, Tibetan, and so forth. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located within two blocks of Barnard; students are encouraged to use the resources they offer.

All courses, except those limited to majors, satisfy the College's distribution requirements.

## REQUIREMENTS FOR THE MAJOR

### Program of study:

To be planned with the departmental representative, taking into account the educational aims of the student.

### Courses:

For the major, 10 courses are required. Students must include among the 10 courses at least one of the introductory courses (*Religion V 1001—Major Topics in the Study of Religion*; *V 1101—Introduction to the Study of Western Religion*; *V 1102—Introduction to the Study of*

# Religion

*Eastern Religion*), or *V 1040—Introduction to Theory and Methods in the Study of Religion*, and two courses in the traditions (six points). At the levels of the introductory and traditions courses, students are expected to gain exposure to both Eastern and Western religions. The majors' colloquium, to be taken in the senior year, and 3 additional points in seminars, colloquia, or guided reading are also required.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition (e.g., Arabic, Chinese, Greek, Hebrew, Latin, Sanskrit, etc.) in addition to fulfilling the College language requirement.

## Senior essay:

Majors are required to prepare a senior essay or project in consultation with a member of the department. The essay may be written in connection with *Religion V 390I-V 3902—Guided Reading and Research*. The department takes the senior essay into consideration when making recommendations to the Faculty Committee on Honors.

## REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses, including:

One of the introductory courses (i.e. Courses V 1101, V 1102, V 1001);

Two courses selected from the Traditions; and

One course taken as a seminar, colloquium, or guided reading.

The Department also cooperates with related programs such as Ancient Studies, Oriental Studies, Jewish Studies, and with other departments, to arrange combined, double, joint, and special majors. These arrangements are made in consultation with the chairman.

## COURSES OF INSTRUCTION

Courses offered by other departments and the graduate program, but integral to the study of religion are listed here only by title. For a complete description, please consult the appropriate bulletin.

### INTRODUCTORY COURSES

#### **REL V 1001x, REL V 1001y. Major Topics in the Study of Religion.**

Introduction to theory and practice of religion, East and West, e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization.—Staff.

3 points.

x: *M W 6:10-7:25. Instructor to be announced.*

*M W 11:00-12:15. Instructor to be announced.*

y: *M W 2:40-3:55. Instructor to be announced.*

*Tu Th 10:35-11:50. P. Awn.*

#### **REL V 1101x, V 1101y; V 1102x, V 1102y.**

##### **Introduction to the Study of Religion.**

Phenomenology of religious experience and historical forms of religious life; presuppositions, data and documents of religions of East and West. V 1101: religions of the West. V 1102: religions of the East.—Staff.

*Students may begin their study of religion with either course.*

3 points.

*V 1101x Tu Th 4:10-5:25. M. Harran.*

*V 1101y M W 6:10-7:25. Instructor to be announced.*

*V 1102x Tu Th 6:10-7:25. Instructor to be announced.*

*V 1102y Tu Th 9:10-10:25. B. Smith.*

#### **REL V 1040x, REL V 1040y. Theories and Methods in the Study of Religion.**

An introduction to the problems and methods of the study of religion, focusing on classical theorists who concentrated on the nature and origins of religion and the problems of comparison in works on "primitive" religions. Readings from Levy-Bruhl, Durkheim, Freud, Jung, Levi-Strauss, Evans-Pritchard, and Eliade.—x: B. Smith; y: Instructor to be announced.

3 points. x: *M W 1:10-2:25, y: M W 4:10-5:25.*

### THE TRADITIONS

#### **REL V 2607x. Buddhism.**

A historical introduction to Buddhist thought, scriptures, practices and institutions. Attention given to Theravada, Mahayana and Tantric Buddhism in India, as well as selected non-Indian forms.—P. Watt.

3 points. *M W 11:00-12:15.*

(IV)

#### **REL V 2610y. Christianity.**

Survey of Christianity from beginnings through the Reformation.—R. Somerville.

3 points. *M W 11:00-12:15.*

(IV)

#### **REL V 2600x. Hinduism.**

Origin and development of central themes of traditional Hinduism; basic religious literature and its relation to Indian culture. Readings include original sources in translation.—B. Smith.

3 points. *M W 11:00-12:15.*

(IV)



## Islamic-Religion ISR V 2630x. Islam.

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings.—P. Awn.

3 points. Tu Th 4:10-5:25. (IV)

## REL V 2620y. Judaism.

Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations.—A. Eisen.

3 points. M W 2:40-3:55. (IV)

## INTERMEDIATE COURSES

### EASTERN RELIGIONS

## REL V 3602y. Classical Texts in Eastern Religion.

Topic for 1984-85: ancient Indian mysticism; readings from sources for Indian mysticism; *Rigveda*, *Brahmanas*, and *Upanishads*.

—B. Smith.

3 points. Tu Th 1:10-2:25. (III)

## REL V 3608y. Buddhism of China and Japan.

An examination of Buddhism in China to the 9th century A.D. and in Japan to the 14th century. Emphasis upon the encounter with indigenous traditions and the transformation of Buddhism within Chinese and Japanese culture.—P. Watt.

3 points. Tu Th 10:35-11:50. (IV)

## REL V 3611x. Chinese Religious Thought.

Native religious and philosophical movements and Buddhist developments in China.—Instructor to be announced.

Not offered in 1984-85.

3 points. (IV)

## REL V 3613y. Japanese Religious Tradition.

A study of the development of the Japanese religious tradition in the pre-modern period. Attention given to the thought and practices of Shinto, Buddhism and Confucianism, the interaction among these religions in Japanese history and the first Japanese encounter with Christianity.—P. Watt.

Not offered in 1984-85.

3 points. (IV)

## Middle East MDE W 3010x. History of Astrology in the Ancient and Classical World.

Role of astrology in the development of astronomy; calendar systems of the ancient Orient; origin of zodiac division; deification of plants and stellar myth; influence of astrology in Egypt, Babylon, China, Greece, Rome, Iran, and India.—A. Wayman.

3 points. Tu Th 2:40-3:55.

## Indic-Religion INR G 4301y. Hindu and Buddhist Tantrism.

Lectures and supervised essays. The Indian background, fundamental theory, similarities and divergences of Tantric schools.—A. Wayman.

Offered in alternate years. Not offered in 1984-85. 3 points.

## Indic-Religion INR G 4335x. History and Doctrine of Indian Buddhism.

Historical sketch of the rise, impact, and decline of Indian Buddhism, chief shared or disputed doctrines of Buddhist sects; the canons, bibliographical survey, and introduction to the world of Buddhist scholarship.—A. Wayman.

Offered in alternate years. Not offered in 1984-85. 3 points.

## Indic-Religion INR G 4340x. The Vedic Tradition.

Survey of the chief features of the four Vedas, the *Brahmanas*, and the *Upanishads* of India; the Vedic sacrifice, the opponents of Vedism, and the beginning of Hinduism.—A. Wayman.

3 points. W 11:00-12:50.

## Indic-Religion INR G 4454y. Indian Philosophy.

Historical survey of Indian philosophy, including Vedic philosophical fragments, the six traditional schools, heterodox system, and aesthetic theory.—A. Wayman.

3 points. W 11:00-12:50.

## Iranian-Religion IRR W 4703x-W 4704y. Religions and Philosophies of Ancient Iran.

Either term may be taken separately. W 4703: religious background of the Iranians, Zarathustra's religion, the Sassanid state culture. W 4704: Zoroastrianism, Manichaeism, Mithraism, Mazdakism. Not offered in 1984-85.

3 points.

## Oriental Studies-Religion OSR W 4399x-W4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought, and Literature.

Readings in translation. Autumn Term: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring Term: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Ethical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—W. T. deBary and staff.

Knowledge of the original language not required. 3 points. M 4:10-6:00. W 3:10-4:00. (III)

# Religion

## WESTERN RELIGIONS

### Judaism

#### **REL V 3201x. Introduction to the Hebrew Bible.**

Introduction to the literature of ancient Israel against the background of the ancient Near East.—Instructor to be announced.

3 points. Tu Th 1:10-2:25. (IV)

#### **REL V 3210y. Judaism during the Time of Jesus.**

An introduction to the Hellenistic period in Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West.—A. Segal.

Not offered in 1984-85.

3 points. (IV)

#### **REL G 4302x. Religion and Society in the Period of the Mishnah and Talmud.**

Critical survey of Jewish beliefs, practices, and institutions in late antiquity and the early medieval period. Primary sources read in original or in translation.—A. Segal.

Not offered in 1984-85.

3 points. (IV)

#### **REL V 3303x. Judaism in the European Middle Ages and the Renaissance.**

Adaptation of Jewish religion to the European environment from the tenth to the seventeenth century. Modifications of rabbinic law; religious practice; liturgy and holy days; philosophic and mystical interpretations; messianic movements; emergence of the Hasidic movement.

3 points. Not offered in 1984-85. (IV)

#### **REL V 3305x. Judaism in the Modern Western World.**

How emancipation and modernization have affected Jewish religious thought and practice in the West from Moses Mendelssohn to the present; a survey of principal thinkers and of issues such as Halakhic change, Zionism, and the Holocaust.—A. Eisen.

3 points. Tu Th 4:10-5:25.

#### **REL V 3320y. Introduction to Early Rabbinic Literature.**

Major rabbinic writings (second to sixth century); emphasis on Agadah (nonlegal) sources.—Instructor to be announced.

Not offered in 1984-85.

3 points. (IV)

#### **REL V 3330y. The Beginnings of Jewish Mysticism.**

A study of the biblical and Hellenistic foundations for Western mysticism—scriptural visions of God, apocalyptic literature, Greco-Roman magic and the merkabah mystical movement in Judaism.—A. Segal.

Not offered in 1984-85.

3 points. (IV)

#### **REL V 3333y. Introduction to Jewish Mysticism.**

Historical and analytic survey of Jewish mystical movements. Copresence and tension between conservative and revolutionary tendencies in Jewish mysticism. Kabbalah, Sabatianism, and Hasidism.

3 points. Not offered in 1984-85. (IV)

#### **REL V 3340y. Contemporary Jewish Ethics.**

Ethical decision making by Jews of varying commitments, in the modern world, with attention both to underlying principles and to their application in such areas as abortion, euthanasia, human rights, and interpersonal relations.

3 points. Not offered in 1984-85. (IV)

#### **REL W 4310y. Talmudic and Geonic Literature.**

Major rabbinic texts; development of the Mishnah, Midrash, and Talmud from the first century B.C.E. to the seventh century C.E., reaching from the pre-Christian to the Islamic period. Rabbinic texts read in the original language.—D. Weiss-Halivni.

Not offered in 1984-85.

3 points. (IV)

#### **REL W 4312x. Modern Philosophies of Judaism.**

Representative contemporary philosophies of Judaism; Holocaust, state of Israel, ethics of Judaism, and nature of Jewish law and authority today. Hermann Cohen, Leo Baeck, Classical Zionists, Mordecai Kaplan, Franz Rosenzweig, Martin Buber, and Abraham Heschel. —A. Eisen.

Not offered in 1984-85.

3 points. (III)

#### **REL V 4320y. Encounters between Modern Philosophy and Judaism.**

Analysis of the principal challenges to faith in the Modern West—including such figures as Spinoza, Kant, and Nietzsche—followed by analysis of Jewish responses by thinkers such as Krochmal, Rosenzweig, Buber, and Soloveitchik. Background in history of Judaism required.—A. Eisen.

3 points. Tu Th 4:10-5:25.



**REL G 4360y. Talmudic Literature.**

Critical study of the major rabbinic documents: Midrash, Mishnah, Gemara and their historical development.—D. Weiss-Halivni.

*Not offered in 1984-85.*

3 points. (IV)

**REL G 6320x. Midrashic Texts. Rabbinic Texts in Hebrew.**

Critical study of a single Midrashic text, concentrating on rabbinic style and principles of exegesis.—A. Segal.

*Not offered in 1984-85.*

3 points.

**Christianity**

**REL V 3202x. Introduction to the New Testament.**

Introduction, by critical methods, to the religious history of the Christian movement in the New Testament period.—H. Hendrix.

3 points. *M W F 10:00-10:50.* (IV)

**REL V 3240y. Graeco-Roman Religion.**

Survey of religions of Rome and the Hellenistic East from the late 4th c. B.C.E. to early 4th c. C.E. with special attention to selected local religious phenomena.—H. Hendrix.

3 points. *M W 1:10-2:25.*

**REL V 3402y. Early Christianity.**

Emergence of early Christian communities and thought; Jesus of Nazareth; Paul; the apostolic age; political clash with Rome; paganism and the mystery religions; dialectic of orthodox and heretical thought to Augustine.—H. Hendrix.

*Prerequisite: Course V 3202 recommended.*

*Not offered in 1984-85.*

3 points. (IV)

**REL V 3404x. Eastern Christianity.**

History of Eastern Christianity from the time of Constantine and the Greek and Oriental Fathers of the fourth century to early modern times; institutions, mystical theology, monasticism, religious art; considerable attention to Russia.—Instructor to be announced.

*Not offered in 1984-85.*

3 points. (IV)

**History-Religion HIR V 3405y. Medieval Ecclesiastical History: 500-1150.**

Institutional, doctrinal, and social development of Latin Christianity from the Late Antique period through the Investiture Conflict.—R. Somerville.

*Not offered in 1984-85.*

3 points. (IV)

**REL V 3406y. Medieval Ecclesiastical History: 900-1400.**

Institutional, doctrinal, and social development of Latin Christianity from the post-Carolingian age to the conciliar struggles of the 15th century.—R. Somerville.

*Not offered in 1984-85.*

3 points. (IV)

**REL V 3408y. Catholic Theology since Vatican II.**

Development of Catholic theology after Vatican II, in its historical context; Rahner, Kung, Metz, Lonergan, Teilhard, Panikkar, liberation theology; the Church and the world, infallibility, theological method, political theology, hope and the future, Christian ecumenism and world religions.—E. Cousins.

*Not offered regularly. Not offered in 1984-85.*

3 points. (III)

**REL V 3409x. Luther and the Radical Reformation: Piety and Politics.**

Religious uniformity and diversity within the Protestant Reformation of the sixteenth century; major radical reformers and divinity of Jesus, place of violence in reform, relation between social and religious reform. Source materials consist of debates, letters, journals, and theological tracts.—M. Harran.

*Not offered in 1984-85.*

3 points. (IV)

**REL V 3410x. History of Religious Thought in the West. Jesus: Early Controversies, Recent Interpretations.**

Selected sources: New Testament, apocryphal, gnostic gospels; early classics of interpretation by Tertullian, Clement, Athanasius, Augustine, Anselm; investigation of contemporary views: historical, psychological, political, religious.—H. Hendrix.

*Prerequisite: Course V 3202 or the equivalent.*

*Not offered in 1984-85.*

3 points. (III)

**REL V 3412x. Gnosticism.**

Investigation of the gnostic gospels and other secret writings, discovered in 1945 in Egypt. These texts, denounced and destroyed as "heretical" by leaders of the early Christian Church, will be explored in terms of their historical, literary, and political content.—H. Hendrix.

3 points. *Tu Th 2:40-3:55.* (III)

# Religion

## **REL G 6346y. Early Eastern Christianity.**

Exploration of religious and social aspects of controversies over interpreting the *Genesis* creation accounts in Jewish and early Christian sources, orthodox and gnostic (100-400 C.E.). Apocryphal and patristic sources read in the original or in translation.

*Not offered in 1984-85.*

*3 points.*

## **Islam**

### **REL V 3001x. Introduction to the Middle East and India.**

Introduction to the Middle East and India.—P. Awn.

*Not offered in 1984-85.*

*3 points.*

(IV)

### **REL V 3635y. History of Sufism.**

History of the Islamic mystical tradition from its origins in the eighth century, through its classical and institutional phases in the twelfth century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—P. Awn.

*3 points.*

(IV)

### **REL G 4610y. Islamic Religion.**

Survey of Islamic institutions in the formative and classical periods: revelation, prophecy, law, philosophy, theology, spirituality, community, religion and politics, etc.—Instructor to be announced.

*A general knowledge of one other Western religion is recommended as well as familiarity with basic methodology in the study of religion.*

*3 points. Not offered in 1984-85.*

### **Islamic-Religion ISR W 4101. Mysticism in Islam.**

*Not offered in 1984-85.*

### **Islamic-Religion ISR W 4702y. Islamic Sectarianism.**

An introduction to the various divergent forms of Islam in the pre-modern period as represented by the history and doctrines of minority sects such as the Khawarij, the Zaydiya, the Ismailis, and the Druse.—P. Walker.

*Not offered in 1984-85.*

*3 points.*

### **REL W 4720y. Introduction to Islamic Philosophy.**

Knowledge of Arabic not required.—P. Walker.

*Not offered in 1984-85.*

*3 points.*

## **Religion, Culture and Society**

### **REL V 3407x. Mysticism.**

Comparative investigation of selected mystical writings from Western and Eastern religious traditions. Contemporary psychological, philosophical, and phenomenological views of mystical experience.—Instructor to be announced.

*Not offered in 1984-85.*

*3 points.*

(III)

### **REL V 3500x. Studies in Religion and Culture: 16th and 17th Centuries.**

Relation between religion and culture in Europe at the beginning of the modern period. Religious thought of Northern Renaissance, Reformation, Counter-Reformation and the changing views of man, God, and the world in the 17th century. Erasmus, Luther, Calvin, Paracelsus, Loyola, Galileo, Descartes, Spinoza, and Payle.—M. Harran.

*3 points. Tu Th 2:40-3:55.*

### **REL V 3501x. 18th and 19th Century Religious Thought.**

Relation between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others.—W. Proudfoot.

*3 points. Not offered in 1984-85.*

(IV)

### **Religion-Sociology RSC W 3503x. The History of Religion in America.**

Religious thought and institutions from colonial times to the present; influence on American political and social history through the work of representative individuals.—Instructor to be announced.

*Offered in alternate years.*

*3 points. M W 2:40-3:55.*

### **REL V 3513x. Philosophy of Religion.**

Introduction to classical and contemporary issues, including those raised by the comparative study of religion.—W. Proudfoot.

*3 points. M W 11:00-12:15.*

(III)

### **REL V 3700y. Women and Religion.**

Images and roles of women in Jewish and Christian traditions: modern forms of women's spiritual quest.—C. Weisman.

*3 points. Tu Th 4:10-5:25.*

(III)

### **REL V 3702y. Religious Ethics: War and Peace in Jewish and Christian Thought.**

Jewish and Christian attitudes toward war and peace; survey of classical traditions (holy war, pacifism, just war); newer elements in the discussion; utopianism, revolutionary violence, and militant nonviolence.—S. Davis.

*3 points. Tu Th 4:10-5:25.*

(III)



## **REL V 3704y. Religion and the State.**

“Civil religion” from Hobbes to Rousseau. The idea of civil religion as it emerged in the late seventeenth and eighteenth centuries.

*Not offered regularly. Not offered in 1984-85.*

*3 points. (III)*

## **REL V 3705x. Problems of Authority in Religion.**

Case studies from the history of Christianity depicting attitudes toward authority—divine, clerical, secular, etc.—and the influence of those attitudes in the development of Christianity. Emphasis on the reading and evaluation of primary sources (in English translations).—R. Somerville.

*3 points. Not offered in 1984-85. (III)*

## **REL V 3745y. Love and Community: Foundations of Christian Ethics.**

A historical survey of key themes and major authors in the tradition of Christian ethics. Beginning with Paul and the Gospel tradition, the course surveys questions of Freedom, Faith, Love, etc. as they relate to the central questions of personal and communal ethical behavior in the western European Christian tradition. Authors include Augustine, Aquinas, Luther, Barth, and Ramsey.—G. Scott Davis.

*3 points. M W 1:10-2:25.*

## **REL V 3710x. The World of Folklore and Magic.**

Comparative investigation of folklore and folk-custom, emphasis on European and American, with reference to Asian, African, and other sources, ancient and modern. Topics include: the life cycle (birth, betrothal, marriage, divorce, death); magic, healing, and superstition; folktale, drama, folksong, folklore today.—T. Gaster.

*3 points.*

*Th 4:10-6:00 plus hour to be arranged. (III)*

## **REL V 3720x. Sociology of Religion.**

Introduction to the field; its classic texts, its major areas of research, its methodological tools and dilemmas, and its relationship both to other sub-disciplines of sociology and to other approaches to religion. Interplay between theoretical works and ongoing empirical research. —Instructor to be announced.

*3 points. Tu Th 6:10-7:25. (III)*

## **REL V 3725x. The World of Myth.**

Nature of myth; investigation of representative myths, both Eastern and Western; science of mythology; myth today.—T. Gaster.

*3 points.*

*Tu 4:10-6:00, plus hour to be arranged. (III)*

## **REL V 3740x. Ethics and Religion in the Western Traditions.**

A historical introduction to ethical theory and problems in the context of the major western traditions: Greek, Jewish, Christian, and Muslim. Topics will include the foundations of morality, the relation of ethical reflection to sacred scripture, and the practical moral implications of religious beliefs. As well as scripture, texts will be drawn from classical and modern authors, such as Aquinas, Maimonides, Kant, Ramsey, and others.—G. Scott Davis.

*3 points. M W 2:40-3:55.*

## **REL V 3735x. Religious Ritual.**

The nature of ritual; symbolism and the sacred; forms of regular worship, annual festivals, rites of passage, including history, symbolism, present-day performances; materials from Judaism, Christianity, Hinduism, Islam, and archaic religions.—Instructor to be announced.

*3 points. Tu Th 1:10-2:25.*

## **REL G 4073x. Philosophy of Religion in America.**

Contributions of major American philosophers to the philosophy of religion. Representatives of idealism, pragmatism, naturalism, and process philosophy.—W. Proudfoot.

*Not offered in 1984-85.*

*3 points.*

## **REL G 4451x. Humanism and Religion.**

Recent religious and non-religious developments in the understanding of humanism; role of concepts of evolution and eschatology in contemporary discussion.

*Offered in alternate years. Not offered in 1984-85.*

*3 points.*

## **Religion-Sociology RSC G 4701y. Sociology of Religion: Comparative Institutions.**

Types and patterns of differentiation of religious organizations; institutional interrelationships between religion and family, economy, politics, and science.—Instructor to be announced.

*3 points. M W 1:10-2:25.*

## **REL G 4705x. Social Theory and Religion: The Classics.**

Critical survey and exposition of major sociological, psychological, and anthropological theories of man, religion, and society: 19th and early 20th centuries.—A. Eisen.

*3 points. M W 4:10-5:25.*

# Religion

## **Anthropology ANT V 3042x. The Anthropology of Religion.**

Ideological systems of simple or preindustrial cultures, relations between religion and other aspects of culture.

*Offered in alternate years. Not offered in 1984-85. 3 points.*

## **SEMINARS AND READING COURSES**

Students who are not religion majors must obtain permission of the instructor.

### **V 3800x. Majors' Colloquium.**

Critical discussion of works on the theory of religion.—S. Davis and H. Hendrix.

*Recommended for all senior majors.*

*4 points. W 4:00-7:00.*

### **REL V 3803x. Seminars in Religious Thought.**

#### **I. Images and Conceptions of Good and Evil.**

Investigates various attempts to understand the origin and nature of good and evil from a comparison of Eastern and Western sources. Topics include: Zoroastrian dualism; Siva and Kali in Indian art and mythology; Hellenistic views of good and evil; the powers of evil in Jewish tradition and legend.

*Not offered in 1984-85.*

*4 points. (III)*

#### **II. Martin Buber and his Critics.**

A comprehensive reading of Buber's work in all its variety, along with critical literature on that work.—A. Eisen.

*Not offered in 1984-85.*

*4 points. (III)*

#### **III. Gods and Goddesses of the Hindu Tradition.**

Theological, mythological, iconographical, and sociological aspects of various Hindu gods and goddesses from the earliest period to the present. Topics include: Deities of the Indo-European heritage; Deities of Classical Hinduism; and Deities of Devotionalistic Hinduism (Shiva, Vishnu, and the Goddess).—B. Smith.

*4 points. Tu 4:10-6:00.*

### **REL V 3804y. Seminars in Religious Thought.**

#### **V. Religious Responses to Suffering and Death.**

Various religious attempts to address questions posed by suffering and death. The theological understanding of the relation between suffering and sin, the question of whether there is value in suffering, the problem of what human suffering implies about the nature of God. Works by Kierkegaard, Wiesel, Rahner, Soele, Old and New Testament selections.—M. Harran.

*4 points. W 2:10-4:00. (III)*

#### **XI. Continuity and Change in Indian Religions.**

The problem of tradition and innovation in Indian religions focusing on the concept of "sacrifice" and its shifting meanings. Topics include: Vedic meanings of sacrifice; Buddhist and Jaina conceptions of the "true sacrifice"; sacrifice in theistic Hindu sects; and sacrifice in modern Indian thought.

—B. Smith.

*Not offered in 1984-85.*

*4 points.*

#### **XIII. The Letters of Paul.**

Study of Paul's letters as sources for his mission and theological views and as evidence for developments in early Christianity. Interpretations of Paul in Christian documents of the 1st and 2nd centuries.—H. Hendrix.

*4 points. W 4:10-6:00.*

### **Religion REL V 3901x, REL V3901y. Guided Reading and Research.**

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program.—Staff.

*3 points.*

*Consultation periods to be arranged with adviser.*

*(III)*

## **GRADUATE COURSES**

Other courses of possible interest to students, which are open to qualified undergraduates with the instructor's permission, are described in the bulletin of the Graduate School of Arts and Sciences.



# Russian

Office: 226 Milbank Hall

Telephone: 280-5417

## Professors

Richard F. Gustafson (Chairman), Marina Astman

## Associates

Anatol K. Sapronow, Marianna Sapronow, Zoya Trifunovich

Other officers of the University offering courses in Russian:

## Professors

Robert L. Belknap, William E. Harkins, Robert A. Maguire, John Malmstad

## Assistant Professor

Nicholas Ozerov

## Associate

Alla Klimova

## Lecturers

Irene Balaksha, Inna Konon

## Preceptors

Richard Borden, Nicole Reindorf, Constantin Kustanovich

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

## REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Astman as early as possible.

A total of 10 courses are required for the major:

Russian V 3333 - V 3334	<i>Introduction to Russian Literature</i>
Russian V 1220	<i>Nineteenth-Century Russian Prose</i>
Russian V 1221	<i>Twentieth-Century Russian Prose</i>
Russian V 3595	<i>Seminar</i>

At least two courses from:

Russian V 3441, V 3442	<i>Russian Conversation and Composition</i>
Russian V 3443, V 3444	<i>Russian Syntax and Style</i>

# Russian

And at least three more courses, including at least *one* course from the following:

Russian V 3461  
Russian V 3462  
Russian V 3463  
Russian V 3464  
Russian V 3465

Russian V 3467

*Pushkin*  
*Gogol*  
*Tolstoy*  
*Dostoevsky*  
*Russian Poetry in the 19th and 20th Centuries*  
*Twentieth-Century Prose Writers*

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Columbia University can be arranged and study in the Soviet Union is possible as part of the major.

## REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor, including either V 3331, V 3332, *Advanced Course*, or V 3333, V 3334, *Introduction to Russian Literature*, but not both. No courses in translation count toward the minor.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

#### **RUS V 1101x-RUS V 1102y. Elementary Course.**

Grammar, reading, composition; oral practice in small groups.

*Work in the language laboratory and oral practice are required. No credit is given for V 1101 unless V 1102 is satisfactorily completed.*

4 points.

Section I M W F 9:00 and either M W F 10:00 or Tu Th 9:10-10:25. N. Reindorf.

Section II M W F 10:00 and either M W F 9:00 or M W F 11:00. R. Borden.

Section III M W F 12:00 and either M W F 11:00 or M W F 1:00. I. Konon.

Section IV M W F 1:00 and either M W F 12:00 or M W F 2:00. I. Balaksha.

Section V M W F 11:00 and either M W F 10:00 or M W F 12:00. Instructor to be announced.

#### **RUS V 1201x-RUS V 1202y. Intermediate Course.**

Reading, composition, grammar review; oral practice in small groups.

*Prerequisite: Course V 1102 or the equivalent. Work in the language laboratory and oral practice are required.*

4 points.

Section I M W F 9:00. Z. Trifunovich.

Section II M W F 10:00. I. Balaksha.

Section III M W F 12:10. I. Balaksha.

Section IV M W F 11:00. Instructor to be announced.

### *Oral Practice*

Section I M W 10:00.

Section II M W 11:00.

Section III Tu Th 9:00.

Section IV Tu Th 10:00.

Section V Tu Th 11:00.

Section VI Tu Th 12:00.

#### **RUS V 3331x, RUS V 3332y. Advanced Course.**

Emphasis on conversation and composition; reading and discussion of selected twentieth-century texts; lectures, papers, and oral reports. Conducted entirely in Russian.—Z. Trifunovich and M. Sapronow.

*Prerequisite: Course V 1202 or the equivalent. Oral practice is required.*

4 points.

Section I M W F 10:00. Z. Trifunovich.

Section II M W F 1:10. M. Sapronow.

### *Oral practice*

Section I M W 2:10.

Section II Tu Th 1:10.

#### **RUS V 3441x, RUS V 3442y. Russian Conversation and Composition.**

Selected twentieth-century texts including fiction and non-fiction provide a context for discussion of contemporary issues; lectures, reports, and compositions. Conducted entirely in Russian.—A. Klimova.

*Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.*

3 points. M W F 12:00.



**RUS V 3443x, RUS V 3444y. Russian Syntax and Style.**

Autumn Term: Systematic study of problems in Russian syntax; written exercises; translations into Russian, and compositions. Spring Term: Discussion of styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian.—Z. Trifunovich.

*Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.*

3 points. M W F 10:00.

## LITERATURE COURSES

**RUS V 3333x, RUS V 3334y. Introduction to Russian Literature.**

Emphasis on reading and literary analysis; representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian; examinations in English.—Instructor to be announced.

*Prerequisite: A grade of B- or better in Course V 1202 or permission of the instructor. Oral practice is required.*

4 points.

M W F 10:00.

*Oral practice: Two hours to be arranged.* (II)

**RUS V 3461y. Pushkin.**

Pushkin's narrative, dramatic, and lyrical verse in the original.—R. Gustafson.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly.*

3 points. Tu Th 10:35-11:30. (II)

**RUS V 3462x. Gogol.**

The major works of Gogol, in the original.—J. Malmstad.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly.*

3 points. W F 1:10-2:25.

**RUS V 3463y. Tolstoy.**

*Anna Karenina*, in the original, with emphasis on linguistic and literary analysis. Class discussion conducted in English.—R. Gustafson.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1984-85.*

3 points. (II)

**RUS V 3464x. Dostoevsky.**

One major novel, in the original, with emphasis on linguistic and literary analysis.—M. Astman.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1984-85.*

3 points. (II)

**RUS V 3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.**

Selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others; metrics, formal analysis of style and structure, and relationships to literary and philosophical movements.—M. Astman.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1984-85.*

3 points. (II)

**RUS V 3467y. Twentieth-Century Prose Writers.**

Two or three of the most important twentieth-century writers, in the original.—N. Ozerov.

*Prerequisite: Three years of Russian or permission of the instructor. Not offered regularly. Not offered in 1984-85.*

3 points. (II)

**RUS V 3595x. Seminar.**

Supervised individual research on some aspect of the seminar topic with class reports culminating in a critical paper.—M. Astman.

*Prerequisite: Major status or permission of the instructor.*

4 points. W 2:10-4:00.

**RUS V 3596y. Individual Research.**

Supervised individual research culminating in a critical paper.—Staff.

*Open to senior majors, and permission of the instructor is required.*

4 points. Hours to be arranged.

## RUSSIAN LITERATURE IN TRANSLATION

**RUS V 1220x. Nineteenth-Century Russian Prose.**

Development of prose forms from Sentimentalism to Impressionism, with special attention to Gogol, Turgenev, and Chekhov. Tolstoy and Dostoevsky not included.—W. Harkins.

*A knowledge of Russian is not required.*

3 points. Tu Th 1:10-2:25.

# Russian

## **RUS V 1221y. Twentieth-Century Russian Prose.**

Course of Russian prose fiction from symbolism to the present; Bely's *Petersburg*, Sologub's *Petty Demon*, Babel's *Red Calvary*, Olesha's *Envy*, and representative major works by Bunin, Pasternak, and Nabokov. Recent "dissident" writers such as Solzhenitsyn.—R. Maguire.

*A knowledge of Russian is not required.*

*3 points. Tu Th 1:10-2:25.*

## **RUS V 1222y. Tolstoy and Dostoevsky.**

Major works of the two writers.—R. Belknap.

*A knowledge of Russian is not required.*

*3 points. Tu Th 10:35-11:50.*

## **RUS V 1224x. Introduction to Russian Culture.**

Principal currents of Russian thought and artistic expression with emphasis on elements that appear to be characteristically Russian.—W. Harkins.

*A knowledge of Russian is not required. Not offered in 1984-85.*

*3 points.*

## **Russian-Religion G 4006x. Modern Russian Religious Thought.**

Concepts of God, man, nature, and history; Chaadaev, Khomyakov, Solovyov, Fyodorov, Berdyaev, Shestov, Florensky, Bulgakov, Lossky, Frank and others.—R. Gustafson.

*A knowledge of Russian is not required.*

*Not offered in 1984-85.*

*3 points.*





# Sociology

Office: 410 E Milbank Hall

Telephone: 280-4359, 5417

## Professors

Bernard Barber (Chairman), Mirra Komarovsky<sup>1</sup>

## Associate Professor

Viviana Zelizer

## Assistant Professor

Mary Ruggie

## Lecturers

Theresa Rogers, Jean Rohde

Other officers of the University offering courses listed below:

## Professors

Allen Barton, Peter Blau, Ronald Burt, Jonathan Cole, W. Phillips Davidson, Sigmund Diamond, Herbert Gans, Eugene Litwak, Herbert Passin, Alan Silver, Seymour Spilerman, Eviatar Zerubavel, Harriet Zuckerman

## Assistant Professors

Eric Hirsch, Joseph Schwartz, John L. P. Thompson, Andrew Walder

<sup>1</sup>Emeritus and Special Lecturer

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, education, science, etc. The impact on individual behavior of ethnic, racial, religious, and sexual categorizations, rural and urban differences, bureaucratic organizations and small groups, and the mass media are also of sociological interest. So is the relationship between social structure, culture, and personality. Sociology is concerned not only with the normal functioning of social institutions but also with social change and with social problems such as deviance and crime, industrial conflict, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. Comparative materials from other societies, preliterate and more highly developed, are also extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students learn important facts about scientific method in general.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

## REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of ten courses is required for the major, including

Sociology BC 1001, BC 1002	<i>Introduction to Sociology</i>
Sociology V 3100	<i>Introduction to Social Theory</i>
Sociology V 1205	<i>Evaluation of Evidence</i>
Sociology V 3212	<i>Methods of Social Research</i>
	<i>(both no later than the junior year)</i>
Sociology BC 3087-BC 3088	<i>Individual Projects for Seniors</i>

# Sociology

and at least three other courses selected in consultation with the major adviser.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Sociology, BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

## REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including Sociology BC 1001, BC 1002, and three courses to be selected in consultation with the Sociology adviser.

## COURSES OF INSTRUCTION

### **SOC BC 1001x. Introductory Sociology, I.**

Introduction to the sociological perspective on human behavior; major theoretical orientations, research methods, and policy uses. Application of basic sociological concepts to the study of love and death. Process of social learning in childhood and adulthood; sex role differences; agents of socialization—family, education, mass media, workplace.—V. Zelizer.

3 points. M W 11:00-12:15. (V)

### **SOC BC 1002y. Introductory Sociology, II.**

General introduction to sociological analysis continued. Impact of small groups and formal organizations on individual behavior, selected problems of social deviance and social control, stratification, and social change.—V. Zelizer.

*Prerequisite:* BC 1001 or permission of the instructor.

3 points. M W 11:00-12:15. (V)

### **SOC V 1205x. Evaluation of Evidence.**

A nontechnical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments).—P. Blau.

3 points. Tu Th 4:10-5:25.

### **SOC BC 2022y. Introduction to Social Work.**

Structure and functions of social welfare in the U.S., and the profession of social work and the several fields and domains in which it works. Social and behavioral sciences related to current events and developments.—J. Rohde.

*Not offered in 1984-85.*

3 points. (V)

*One introductory course in sociology suggested for all 3000-level courses.*

### **SOC BC 3087x-SOC BC 3088y. Individual Projects for Seniors.**

The instructor will supervise the writing of long papers involving some form of sociological research and analysis.—B. Barber.

*Required of all senior majors.*

4 points. W 4:10-6:00.

### **SOC V 3100y. Introduction to Social Theory.**

Development of theories of society in the 19th and early 20th centuries. Detailed examination of the works of the major founders of sociology: Marx, Weber, and Durkheim, as well as a look at other theorists. Topics include the relationship between the individual and society, the nature of class and class struggle, and morality and purpose in social action.—M. Ruggie.

3 points. Tu Th 4:10-5:25. (V)

### **SOC V 3101x. Contemporary Social Theory.**

Major developments in social theory in the 20th century with special focus on symbolic interactionism, structuralism, and critical theory. Theorists to be discussed include Goffman, G. H. Mead, Lévi-Strauss, Althusser, Freud, and Habermas.—M. Ruggie.

3 points. Tu Th 10:35-11:50. (V)

### **SOC V 3209x. Social Class and Social Mobility.**

Consideration of the contemporary U.S. class structure and mobility within that structure. Discussion of barriers to mobility for minorities, women, and the poor.—E. Hirsch.

3 points. Tu Th 10:35-11:50. (V)

### **SOC W 3210y. Comparative Sociology of Race and Ethnicity.**

Theories of racial and ethnic structures. Polarization or deescalation of conflict in divided societies. Obstacles to and consequences of social mobility. Ideology and consciousness.—J. L. P. Thompson.

*Not offered in 1984-85.* 3 points. (V)



## **SOC V 3212y. Methods of Social Research.**

Introduction to elementary data analysis. Definition and measurement of variables; testing of hypotheses; interpretation of findings. Students use the computer to perform a simple analysis of a data set.—Joseph Schwartz.

*Prerequisite: Sociology V 1205x.*

*3 points. M W 2:40-3:55.*

*One hour laboratory per week. (V)*

## **SOC V 3215y. American Society and Politics.**

Development of political behavior in the United States in relation to social change, using historical data on voting and elites along with survey data for the last forty years. Bases of cleavage in mass and elite political behavior (class, ethnicity, region, etc.); role of social movements and third parties; reasons for failure of socialist and fascist movements in comparison with European experience; current trends in ideology and political behavior.—A. Barton.

*3 points. Tu Th 2:40-3:55. (V)*

## **SOC W 3220y. Bureaucracy.**

Brief overview of theories about the operations and problems of different kinds of organization. Analyses of such organizations as government agencies, factories, and academic institutions. Discussion of research on the formal structures of organizations, technology, personnel qualifications, and professionalization.—P. Blau.

*Not offered in 1984-85.*

*3 points.*

## **SOC W 3221y. Social Disorganization, Crime, and Deviance.**

Major theoretical approaches to crime and deviance, and an analysis of major research studies.—R. Read.

*3 points. M W 4:10-5:25.*

## **SOC V 3225y. Sociology of Education.**

The social organization of education in the United States and its effects. Examines schools as agents of socialization; the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling.—H. Zuckerman.

*3 points. Tu Th 1:10-2:25.*

## **SOC V 3228y. Sociology of Medicine.**

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; the social organization of the medical profession and

of the hospital; and problems and prospects of health delivery systems.—T. Rogers.

*3 points. M W 2:40-3:55. (V)*

## **SOC W 3231x. Social Networks.**

How network concepts explain a variety of social phenomena in American life. The use of networks in obtaining jobs, resolving marital problems, adapting to medical innovation, and structuring scientific achievement among academic elites, etc. A critical, non-mathematical review of social network theory.—R. S. Burt.

*Not offered in 1984-85.*

*3 points. (V)*

## **SOC W 3235x. Dilemmas of Loyalty and Power in the United States, 1945-1955.**

The events of the McCarthy period are examined for the light they throw on problems not confined to that era alone: personal and professional autonomy under conditions of growing conformity, the balancing of security and privacy, the effects of the "cult of intelligence" on academic freedom, and others. Some attention is given to the use of the Freedom of Information Act in social and historical research.—S. Diamond.

*3 points. Tu Th 4:10-5:25.*

## **SOC W 3237x. Sociology of Personal Relations.**

Ideals and institutions of personal relations in the Western cultural tradition. The influence of social structure and change on ideas of trust, loyalty, sincerity, and intimacy—and their opposites—in times past and modern society. Readings drawn from literature, history, and sociological theory and research.—A. Silver.

*3 points. M W 2:40-3:55.*

## **SOC W 3240x. Introduction to Japanese Society.**

Japanese society and culture. Its background, development, and present status. The transformation of a non-Western, nonindustrialized society into a modern industrial society.—H. Passin.

*3 points. Tu Th 1:10-2:25.*

## **SOC W 3250x. Marxist Social Thought.**

A critical survey of the ideas of Marx and Engels about the development of capitalism, class conflict and revolution, and of subsequent Marxist ideas designed to account for the survival and continued evolution of capitalism, and the outbreak of revolution in underdeveloped countries. The course is designed to leave students with a coherent overview that allows them to make informed critical judgments about various paths of the Marxist tradition.—A. Walder.

*3 points. M W 5:40-6:55. (V)*

# Sociology

## **SOC W 3262y. Time and Society.**

This course examines the social dimension of the relation between humans and time. It explores the temporal structure and the rhythms of social life, temporal symbolism, the politics of time, the standardization of time reckoning, and the social organization of memory. It ends with the distinctively modern way of perceiving and handling time.—E. Zerubael.

*3 points. Tu Th 2:40-3:55. (V)*

## **SOC V 3265y. Minorities and Ethnic Groups in American Life.**

Role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as their tendencies to intermarry, assimilate, and conflict. Groups such as the Jewish, Italian, Irish, Puerto Rican, and Blacks will be studied.—E. Litwak.

*3 points. M W 11:00-12:15. (V)*

## **SOC V 3303y. Female and Male: A Sociological Perspective.**

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity; stresses in female-male relationships at various stages of the life cycle and in the family, occupational world, and other institutional settings; class and race differences in social roles of the sexes; social policies leading to the alleviation of current problems.—M. Komarovsky.

*Enrollment limited to 35 students. Sign-up sheet, 317 Milbank Hall.*

*3 points. M W 12:30-1:45. (V)*

## **SOC W 3324x. Urban Sociology.**

Focus on theoretical approaches to urban sociology, the historical development of U.S. cities, the importance of economic and political processes in causing urban problems, and urban protest movements as a response to these trends.—E. Hirsch.

*3 points. Tu Th 1:10-2:25. (V)*

## **SOC W 3403y. Ethics, Ideology, and Politics of Professionalism.**

Professionalism in practice and as an ideal. The origins of contemporary professionalism in the large-scale organization, particularly “institutionalized altruism” and commercial considerations over the course of professional careers. The effects of women’s participation in the professions.—R. Zussman.

*3 points. M W 5:40-6:55.*

## **SOC W 3415y. Sociology of News and Journalism.**

The roles of the national news media in American

life. Economic, organizational, political and ideological factors in the reporting and selecting of news. Objectivity, news values, censorship and other issues of news policy. The effects of the news on people and politics. Journalism as a profession.—H.J. Gans.

*Not offered in 1984-85.*

*3 points. (V)*

## **SOC W 3443x. The Sociology of Corporations and Markets.**

A sociological analysis of market competition, and the management of competition by corporate bureaucracies. Corporations and other economic agencies as social organizations.—R. Burt.

*Not offered in 1984-85.*

*3 points. (V)*

## **SOC V 3555y. Sociology of Family Institutions.**

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social policy and the future of the family.—V. Zelizer.

*3 points. M W 1:10-2:25. (V)*

## **SOC W 3620x. The Sociology of Law and Legal Systems.**

Detailed examination of social forces and traditions that help shape the law. Current social controversies as seen in legal decision-making, including: race and sex discrimination; capital punishment; affirmative action; health risks in the workplace; privacy; school desegregation and busing; business regulation and concentration. The historical and current uses and abuses of social science evidence and methods in legal cases. Theoretical issues of equity, fairness, deterrence, risk assessment, linked to scientific evidence. Emphasis on landmark constitutional cases; readings include cases and materials as well as social science studies.—J. Cole.

*3 points. Tu Th 10:35-11:50. (V)*

## **SOC W 3666x. Political Sociology.**

Sociological approaches to the study of such topics as power, ideology, continuity and change, capital accumulation and distribution, and political legitimation. Special focus on the development of modern welfare states in comparative perspective.—M. Ruggie.

*3 points. Tu Th 2:40-3:55. (V)*



## **SOC W 3680y. Sociology of Work and Occupation.**

Problems of mobility, alienation, reward, and occupational satisfaction are systematically treated through reference to theoretical and empirical works. Attention is given to the structure of careers in contemporary American society and to race and sex differences in attainment.—S. Spilerman.  
3 points. MW 4:10-5:25. (V)

## **Political Science-Urban Affairs PSU V 3994x-PSU V 3995y. New York Area Undergraduate Research Project I.**

An ongoing program that develops a social research project from conception to final report. Using New York City as a research laboratory, students choose different topics each year for study. Basic theoretical issues related to the research problem; making a series of empirical questions operational and collecting evidence to test hypotheses are treated. Topic for 1984-85: the politics of crime, punishment, and criminal justice.—E. Fuchs.  
*Prerequisite: Permission of the instructor.*  
4 points. Tu Th 4:10-6:00.

4000-level courses are open to juniors and seniors.

## **SOC G 4018x. Sex Roles and Society.**

The impact of biology, psychology, and society on sex-role differentiation and the consequences of sex-typing for the individual and society. Major

theoretical perspectives and significant recent interdisciplinary research. Topics include socialization; the family; death, divorce, singlehood; deviance, health, illness; race, class, age, stratification; sexuality; social policy.—V. Zelizer.  
3 points. W 2:10-4:00. (V)

## **SOC G 4034y. Sociology of Science.**

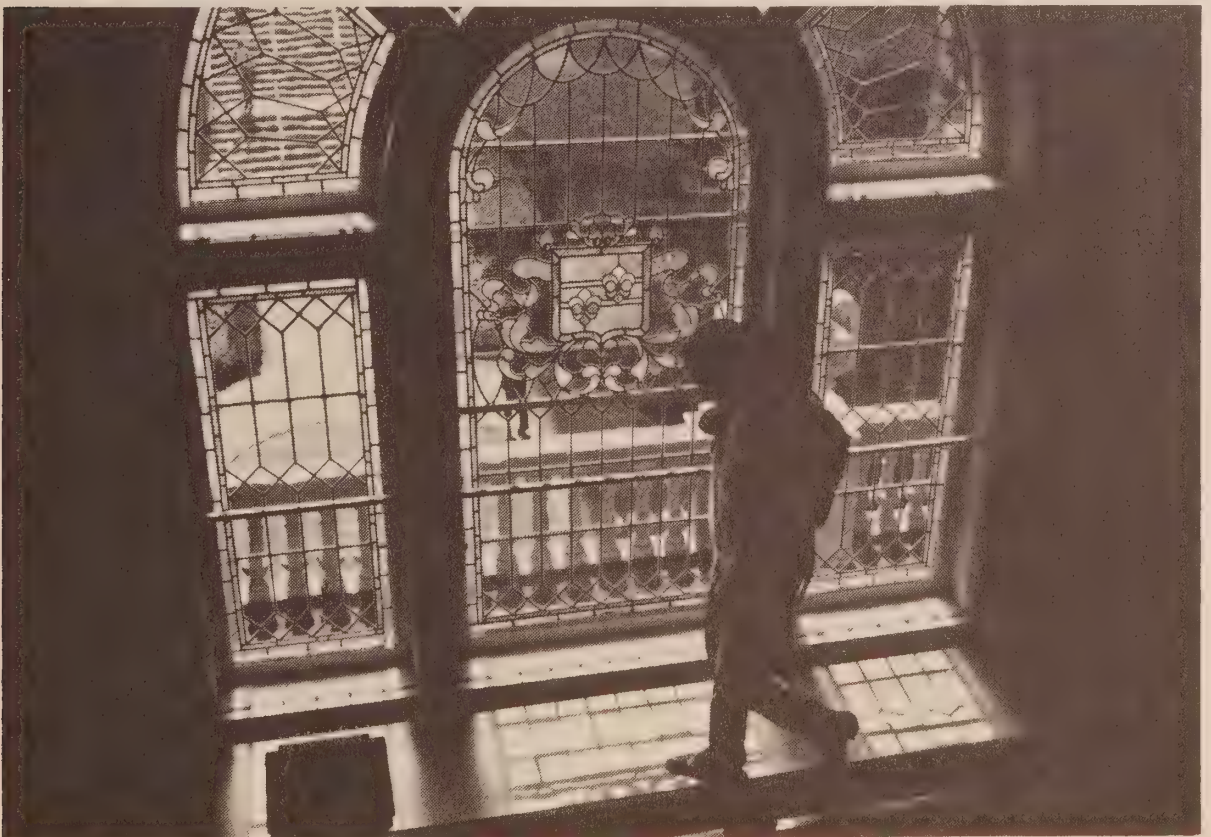
The institution of science, emphasizing its social organization. Sociological aspects of the development of the sciences and of scientific ideas, the reward-and-communication systems, and methodological problems of studying the scientific enterprise.—H. Zuckerman.  
3 points. Th 2:10-4:00. (V)

## **SOC G 4039x. Sociology of Knowledge.**

The study of ideas, knowledge, culture, as part of general theory of sociology. Emphasis on empirical studies, historical and contemporary, in the sociology of knowledge. Control and responsibility in the professions based on knowledge.—B. Barber.  
3 points. W 2:10-4:00. (V)

## **SOC W 4203y. Comparative Social Policy.**

The relationship between social policy and social change in macrosociological perspective. Empirical focus on policies for women including family, social welfare and health policies, labor market and economic policies, and antidiscrimination legislation in various advanced industrial societies.—M. Ruggie.  
3 points. Th 11:00-12:50. (V)



# Spanish

*Office: 208 Milbank Hall*

*Telephone: 280-8713, 2061*

## **Professors**

Alfred MacAdam, Mirella Servodidio<sup>2</sup>

## **Associate Professor**

Marcia Welles (Chairman)

## **Assistant Professors**

James Crapotta,<sup>1</sup> Enrique Giordano

## **Associate**

Vilma Bornemann

## **Lecturers**

Flora Schiminovich, Helene Farber de Aguilar

## **Instructors**

Alicia Ramos, Agueda Pizarro Rayo, Perla Rozencvaig

Other officer of the University offering courses listed below:

## **Professor**

Karl-Ludwig Selig

<sup>1</sup>Absent on leave, Autumn Term

<sup>2</sup>Absent on leave, Spring Term

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language, and to develop an understanding and appreciation of the cultural traditions and literature of Spain and Latin America.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency test taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing BC 1204 with the exception of students of Spanish-American background who may fulfill the requirement with BC 3006 instead of BC 1204. Transfer students should consult the department chairman.

Active student-faculty cooperation and exchange are encouraged through the Spanish Club, which sponsors discussion sessions, film series, and lectures by professors and visiting scholars on topics of current interest. Student participation is essential to the faculty's yearly presentation of a classic or contemporary drama to the academic as well as general New York Hispanic communities. The rich cultural resources of the city are utilized at all levels of instruction as a natural extension of the academic process.

## **REQUIREMENTS FOR THE MAJOR**

Students interested in the major are urged to consult with the department as early as possible in order to arrange a program best suited to their particular concerns. Guidance and program coordination are also offered to Foreign Area Studies majors in the subdivisions of Latin America and Spain. Study abroad (Spain or Latin America) is actively encouraged and supported by departmental scholarship funds available to majors.



The ten following courses are required for the major; a sequential order is strongly recommended:

Spanish BC 3013	<i>The Culture of Spain</i>
Spanish BC 3015	<i>Spanish-American Culture</i>
Spanish BC 3017	<i>Spanish Literature in the Middle Ages and Early Renaissance</i>
Spanish BC 3018	<i>Literature of the Golden Age</i>
Spanish BC 3020	<i>Don Quijote</i>
Spanish BC 3023	<i>Nineteenth-Century Literature in Spain</i>
Spanish BC 3025, BC 3026	<i>Contemporary Spanish Literature I and II</i>
Spanish BC 3031, BC 3032	<i>The Literature of Latin America</i>

A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it. The following courses are recommended:

Anthropology V 3209	<i>The Archaeology of the Old World</i>
Classical Literature BC 1032	<i>Classical Myth</i>
Classical Literature V 3123	<i>Greek Drama and Its Influence</i>
Art History V 3500, V 3501	<i>European Painting Since the Renaissance</i>
French BC 3021-BC 3022	<i>Masterpieces of Literature from the Middle Ages to the Twentieth Century</i>
German BC 3055- BC 3056	<i>Major Works of German Literature and Thought</i>
History W 4779-W 4780	<i>History of Latin American Civilization</i>
Philosophy BC 1001	<i>Introduction to Philosophy</i>
Religion V 1101	<i>Introduction to the Study of Religion</i>

The major examination consists of a three-hour written examination on Spanish literature and a three-hour written examination on Hispanic civilization and Spanish-American literature. All examinations are conducted in Spanish.

## REQUIREMENTS FOR THE MINOR

A student minoring in Spanish will be required to take Spanish BC 3020, BC 3031, and BC 3032, and three more courses to be chosen from Spanish BC 3017, BC 3018, BC 3023, BC 3025, and BC 3026.

## COURSES OF INSTRUCTION

### LANGUAGE COURSES

(Enrollment limited to 20 students per section.)

#### SPA V 1101x-SPA V 1102y. Elementary Full-Year Course.

Grammar, reading, conversation.—Staff.

*May not be taken parallel to elementary Italian.*

*Work in the language laboratory is required.*

*4 points. No credit is given for V 1101 unless V 1102 is completed.*

*Sections I, II, III M Tu W Th F 9:00.*

*Section IV M Tu W Th F 10:00.*

*Sections V, VI M Tu W Th F 11:00.*

*Sections VII, VIII M Tu W Th F 12:00.*

#### SPA BC 1001x-SPA BC 1002y. Intensive Elementary Course.

Intensive alternative to Spanish V 1101-V 1102 based on the Dartmouth Intensive Language model and designed to promote rapid oral fluency. Class meets ten hours per week: five hours devoted to drill work, five hours to communicative situations. Primarily for students who need to acquire Spanish for travel or professions requiring fluency.—A. Ramos and staff.

*4 points. No credit is given for course BC 1001 unless BC 1002 is completed.*

*M Tu W Th F 9:00 and M Tu W Th F 12:00.*

# Spanish

## **SPA BC 1003x. Intensive Review of Elementary Spanish.**

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation.—Staff.

*Prerequisite: Course V 1101 or the equivalent. Work in the language laboratory is required.*

4 points.

Section I M Tu W Th 9:00.

Section II M Tu W Th 1:10.

## **SPA BC 1203x, SPA BC 1204y. Intermediate Course.**

Rapid review of grammar and syntax; oral practice; discussion and analysis of important works in Spanish and Spanish-American literatures.—Staff.

*Prerequisite: V 1102 or BC 1102 or the equivalent.*

*Work in the language laboratory is required.*

3 points.

Section I M W F 9:00.

Section II M W F 10:00.

Section III M W F 10:00. (only in Spring term)

Section IV M W F 11:00. (only in Spring term)

## **SPA BC 1205x. Intermediate Spanish through Theatre.**

An alternative course to Spanish BC 1203, stressing oral and written skills through reading and performance of dramatic texts. Review of pronunciation and grammar through analysis of dialogue. Writing of original scripts and dramatic monologues. Videotaping of some performances. Plays will include one work being performed in the city by a professional company. Limited to 15 students per section. Recommended for students particularly interested in developing communicative skills.—E. Giordano.

*Prerequisite: V 1102 or BC 1002 or the equivalent.*

3 points. M W F 11:00.

## **SPA BC 1206x-SPA BC 1207 y. Intermediate Conversation.**

Recommended parallel: Spanish BC 1203, BC 1204. *Prerequisite* V 1101x-V 1102y or the equivalent. Intensive oral practice; pronunciation; technical vocabulary; short speeches; group discussion.—Staff.

2 points. M W 12:00-1:10.

## **SPA BC 1203y. Intermediate Course. Part I.**

Equivalent to BC 1203x but given in the Spring Term.—Staff.

*Prerequisite: V 1102 or the equivalent.*

*Work in the language laboratory is required.*

3 points.

Section I M W F 9:00.

Section II M W F 11:00.

## **SPA BC 1204x. Intermediate Course. Part II.**

Equivalent to BC 1204y, but given in the Autumn Term.—Staff.

*Prerequisite: BC 1203 or the equivalent.*

3 points.

Sections I, II M W F 10:00.

Section III M W F 11:00.

## **SPA BC 3006x. Problems of Spanish Grammar.**

Morphology, structure, and syntax as a point of departure for questions related to New York City Spanish; i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why.—E. Giordano.

*Prerequisite: BC 1204 or the equivalent, or Latin-American background. Recommended to students in Education, Linguistics, Urban Studies. May be used to fulfill the foreign language requirement by students of Spanish-American background.*

3 points. M W 1:10-2:25.

## **SPA BC 3007y. Advanced Composition and Translation.**

Designed to improve expository skills and to develop greater stylistic subtlety and flexibility. Translation of various styles of poetry and prose.—H. Aguilar.

*Prerequisite: BC 1204 or the equivalent.*

3 points. M W 1:10-2:25.

## **SPA BC 3009x, BC 3010y. Advanced Oral Spanish.**

Spoken Spanish, differences of pronunciation in Spain and America; conversation, oral drills, theatrical improvisation, and field work.—Staff.

*Prerequisite: BC 1204 or the equivalent. Permission of the instructor required. Not intended for students of Spanish-American background. Enrollment limited to 15 students per section.*

2 points. M W 12:00-1:10.

## **French-Spanish FSP BC 3090x. Methodology of Foreign Language Teaching.**

Methods course designed to train future teachers in theories and techniques of language teaching. Teaching conversation, grammar, literature, translation and lesson organization. Students practice and demonstrate techniques. Videotaping of some sessions for auto-critique. —J. Crapotta.

*Primarily for sophomores and juniors in the Education Program and others interested in foreign language teaching. Not offered in 1984-85.*

3 points.



## LITERATURE AND CULTURE COURSES

For non-majors, the courses listed in this section (except BC 3013 and BC 3015, BC 2016) will count toward the distribution requirement. All Barnard courses are conducted entirely in Spanish unless otherwise stipulated.

Unless otherwise stated, **the prerequisite for all literature courses is the satisfaction of the foreign language requirement in Spanish.**

### **SPA BC 3005x. Literary Analysis of Contemporary Authors.**

Major twentieth-century works; techniques of literary analysis as they apply to different genres; theories of criticism; critical evaluation of style, structure, and content.—F. Schiminovich.  
*3 points. Tu Th 1:10-2:25. (II)*

### **SPA BC 3011x, SPA BC 3011y. Significant Themes of Contemporary Latin American and Spanish Literature.**

Selected works of contemporary interest. BC 3011 may be elected more than once for course credit providing sections vary.  
*3 points.*

### **SPA BC 3011x. V. Twentieth Century Women Poets of Latin America: Images of Self.**

A study of selected works by principal women poets of twentieth-century Latin America, focusing on the poetic persona as transformed by and revealed in language. Through close textual analysis, the course will explore how each author expresses her roles as woman and poet. Readings will include Gabriela Mistral, Alfonsina Storni, Blanca Varela, Alejandra Pizarnik, Rosario Castellanos, and Ulalume González de León.—A. Pizarro Rayo.  
*M W F 11:00. (II)*

### **SPA BC 3011y. VI. Restless Heroines: The Independent Women in Early Spanish Theatre.**

An examination of Golden Age plays in which women rebel against restrictions and establish independent lives; woman as seer, deliverer, warrior, leader, bandit, Amazon, career woman, rejector of marriage. Authors include Lope, Tirso de Molina, Calderón, and others.—J. Crapotta.  
*M W F 10:00. (II)*

### **VII. Censorship and Self-Censorship in Contemporary Latin American Narrative.**

An exploration of the masks assumed by a text when produced under socio-political constraints. A

critical examination of the stylistic devices and textual strategies as reflected in selected works of Reinaldo Arenas, M. A. Asturias, Alejo Carpenter, Rosario Castellanos, Rosario Ferré, Salvador Elizondo, Ricardo Piglia, Cristina Peri Rossi.—P. Rozencvaig.  
*M W F 11:00. (II)*

### **SPA BC 3013x. The Culture of Spain.**

History and culture of Spain; origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contribution to Western culture. Use of audiovisual materials.—M. Welles.  
*3 points. Tu Th 10:35-11:50.*

### **SPA BC 3015x. Spanish-American Culture I.**

Spanish-American history, society, and art, from the time of the great Indian empires to the late nineteenth century.—E. Giordano.  
*3 points. M W F 10:00.*

For Spanish-American Culture II (BC 2016) see listings under *Spanish Courses in Translation*. Both terms required of Latin American Areas majors. The first semester required of Spanish majors.

### **SPA C 3333x-C 3334y. Masterpieces of Spanish Literature (in Spanish).**

Survey of major works of great writers of Spain and Spanish America.  
*3 points.*  
*C 3333x: M W F 10:00. D. Fox.*  
*C 3334y: M W F 10:00. H. Gold. (II)*

### **SPA BC 3017x. Spanish Literature in the Middle Ages and the Early Renaissance.**

Lectures and discussions in Spanish on Spanish literature from its origins to the beginnings of the sixteenth century.—M. Servodidio.  
*3 points. M W F 11:00. (II)*

### **SPA BC 3018y. Literature of the Golden Age.**

Poetry, theater, and narrative of the Golden Age; Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón.—J. Crapotta.  
*3 points. M W F 11:00. (II)*

### **SPA BC 3020y. Don Quijote.**

Cervantes' masterpiece; a study of the principal critical works.—M. Welles.  
*Prerequisite: BC3017 or BC 3018 or permission of the instructor.*  
*3 points. Tu Th 10:35-11:50. (II)*

# Spanish

## **SPA BC 3023y. Nineteenth-Century Literature in Spain.**

Romantic drama and poetry; realistic novel with special emphasis on Galdós.—A. Ramos.  
*3 points. M W F 10:00. (II)*

## **SPA BC 3025x. Contemporary Spanish Literature. Part I.**

Characteristics, techniques, and style of writers of the generation of '98 from Unamuno to Baroja, Valle-Inclán, Azórin, Benavente, A. Machado, Juan Ramón Jiménez, and Ortega y Gasset.—M. Servodidio.

*Prerequisite: BC 3017 or BC 3018 or permission of the instructor.*

*3 points. M W 1:10-2:25. (II)*

## **SPA BC 3026y. Contemporary Spanish Literature. Part II.**

Ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present-day writers.—M. Welles.

*3 points. M W 1:10-2:25. (II)*

## **SPA BC 3031x, SPA BC 3032y. The Literature of Latin America.**

Autumn Term: Introductory study from its indigenous origins in the Popol-Vuh, through the Colonial period to the twentieth century. Modernist poets and the literature of the Gaucho and the Indian. Spring Term: Post-Modernist poetry; Jorge Luis Borges; contemporary Latin-American novel.

*3 points.*

*BC 3031x: M W 4:10-5:25. H. Aguilar.*

*BC 3032y: Tu Th 1:10-2:25. A. MacAdam. (II)*

## **SPA BC 3033x, SPA BC 3033y. Senior Project.**

Independent research for a senior essay, under a chosen faculty adviser and with the chairman's permission—Staff.

*Open only to seniors.*

*3 points. Hours to be arranged.*

## **SPA BC 3034y. Independent Research in Latin America.**

Designed for senior majors in Latin American areas to examine those aspects of Latin American culture

which have the greatest significance for them. Senior essay written in consultation with the major adviser and an instructor selected from the department appropriate to the specific topic. Students may also consider a translation project.—A. MacAdam.  
*Open to senior majors in Latin American areas; others by written permission.*

*3 points. Hours to be arranged.*

## **SPANISH COURSES IN TRANSLATION**

### **SPA BC 2001y. Modern Latin American Narrative.**

An introduction to modern Latin American narrative for English-speaking students. The course seeks to examine the major trends in Latin American narrative, from the late nineteenth century to the present. Readings include Machado de Assis, Borges, Cortázar, Fuentes, García Márquez, and Mario Vargas Llosa.—A. MacAdam.

*3 points. M W 1:10-2:25.*

### **SPA BC 2016y. Spanish-American Culture II.**

Spanish-American culture from the period of Independence to the present day. Readings will consist of personal documents (letters, memoirs, diaries) as well as essays by Latin American intellectuals. Among authors to be read are: Simón Bolívar, Borges, Octavio Paz, Fidel Castro, Ernesto "Che" Guevara.—A. MacAdam.

*3 points. Tu Th 10:35-11:50.*

### **Comparative Literature-Spanish CPS C 3810x. Don Quixote in Translation.**

Narrative technique and structure of the novel. Various kinds of novels and other narrative structures and models (e.g. pastoral, sentimental, picaresque, romances of chivalry, the novella) in their relationship to Don Quixote and the history and development of the genre.—K.-L. Selig.

*3 points. Tu Th 10:35-11:50.*

## **AREA COURSES**

For information on Latin American and Spanish Area courses, see listings under Foreign Area Studies.



# Statistics

Office: 618 Mathematics Building

Telephone: 280-3652

Officers of the University offering courses in Statistics:

## Professors

Cyrus Derman, Tze Leung Lai, Howard Levene, Burton H. Singer (Chairman), John Van Ryzin

## Associate Professors

Ioannis Karatzas (Departmental representative, 614 Mathematics), Steven P. Lalley

## Assistant Professor

Michael Hogan

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research, and related fields. Members of the department are actively engaged in both theoretical and applied research. Computing facilities include both interactive terminals and large scale batch-mode processing.

## REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major:

Mathematics V 1101, V 1102 and V 3202, or their equivalents  
Statistics-Operations Research W 3611, or W 3658  
Statistics W 3659, W 3662 and W 3701

One approved course in computer science beyond the introductory level and 5 additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least 2 of which must be statistics courses at the 4000 level.

## REQUIREMENTS FOR THE MINOR

The minor in statistics requires 4 courses in statistics including:

W 3611 (or W 3658), W 3612 (or W 3659), W 3621 (or W 3662), W 3625 (or any statistics course at the 4000 level) and one approved course in computer science.

## COURSES OF INSTRUCTION

### STA W 1111x, y. Introduction to Statistics.

An introduction to the principles of quantitative reasoning and methods of statistics, with applications to social and natural sciences. Elements of data analysis. Graphical and numerical summaries of data. Probability and distributions of random variables. Statistical inference. Tests of hypotheses. Estimation of unknown parameters. Comparing treatment with control. Basic concepts of correlation and regression analysis.—x: S. P. Lalley; y: M. Hogan.

*Prerequisite:* High school mathematics through intermediate algebra. This course may be followed

*by W 3621 or W 3625 or appropriate courses in statistics given by other departments.*

*3 points.*

*x: Tu Th 1:10-2:25.*

*y: Tu Th 6:10-7:25.*

### Statistics-IEOR STO W 3611x.

#### Probability and Statistical Inference I.

Probability theory. Important distributions. Central limit theorem. Introduction to data analysis. Estimation: point and confidence intervals. Hypothesis testing.—C. Derman.

*Prerequisite:* A working knowledge of calculus.  
*3 points. Tu Th 11:00-12:15.*

# Statistics

## **Statistics-IEOR STO W 3612y. Probability and Statistical Inference II.**

Principles of statistical inference. Statistical decision problems. Maximum likelihood estimation. Nonparametric procedures. Correlation and curve-fitting. Applications of probability theory and statistics to engineering, natural and social sciences.—C. Derman.

*Prerequisite:* Statistics W 3611x.

3 points. Tu Th 11:00-12:15.

## **STA W 3621y. Applied Regression and Nonparametric Methods.**

Simple linear regression. Multiple regression. Prediction. Analysis of variance. Nonparametric tests of hypotheses. Robust estimation. Relevant statistical packages. Applications to natural and social sciences.—B. H. Singer.

*Prerequisite:* Statistics W 1111, or Statistics-IEOR W 3611x, or a basic course in statistics.

3 points. Tu Th 4:10-5:25.

## **Statistics-IEOR STO W 3658x,y. Probability.**

Fundamentals of probability theory. Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem.

x: C. Derman; y: T. L. Lai.

*Prerequisite:* a working knowledge of calculus.

3 points. M W 1:10-2:25.

## **Statistics-IEOR STO W 4606x, y. Elementary Stochastic Processes.**

Review of elements of probability theory. Poisson process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time Markov chains and applications to queueing theory, inventory models, branching processes.—x: B. H. Singer; y: I. Karatzas.

*Prerequisite:* Statistics-IEOR W 3658 or the equivalent.

3 points.

x: W 6:30-9:00.

y: M 6:30-9:00.

## **STA W 3659y. Statistical Inference.**

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, natural and social sciences.—T. Sellke.

*Prerequisite:* Statistics-IEOR W 3611 or W 3658 or the equivalent.

3 points. W 6:30-9:00.

## **STA W 3662x. Regression and Analysis of Variance.**

Simple linear regression. Multiple regression. Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way and factorial designs. Multiple comparisons. Components of variance models. Elements of experimental design; randomized blocks and Latin squares.—H. Levene.

*Prerequisite:* Statistics W 3659 or the equivalent, linear algebra, and computer programming.

3 points. W 4:10-6:40.

## **STA W 4113y. Nonparametric Statistics.**

Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation. Introduction to sequential statistical procedures. Applications to quality control and clinical trials.—Instructor to be announced.

*Prerequisite:* Statistics W 3659.

3 points. Tu 4:10-6:40.

## **STA W 3701y. Introduction to Data Analysis.**

Data analysis using the computer statistical package SCSS and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format.—S. Finch.

*Prerequisite:* A one-term introductory statistics course.

3 points. Tu 2:10-4:00 and two hours of laboratory to be arranged.

## **STA G 4137x. Time Series Analysis.**

Time series models in economics, engineering, geology, and other applications. Auto regressive and moving average schemes. Model fitting, estimation of parameters, and hypothesis testing. Serial correlation, periodograms, and spectral analysis. Trend fitting and complex demodulation. Prediction. Introduction to multiple time series. FFT.—P. Welch.

*Corequisite:* W 4112 or the equivalent.

3 points. Th 4:10-6:00.

## **STA C 3997x or y. Independent Research.**

*Prerequisite:* the permission of a member of the department. May be repeated for credit. The student participates in the current research of a member of the department and prepares a report on the work.—Staff.

3 points.



# Theatre

Office: 231 Milbank Hall

Telephone: 280-2079, 8312

## Director of the Minor Latham Playhouse

Alan Brody (Visiting Professor)

## Assistants to the Director

Luz Castaños (Associate in Theatre), June Ekman (Instructor in Theatre), Shirley Kaplan (Associate in Theatre), Dennis Parichy (Instructor in Theatre), Janet Soares (Associate in Dance)

## Professor Emeritus of English

Kenneth Janes

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. The Playhouse is a small professional theatre housing the Barnard College Theatre Company, and it is a busy living theatre for students who wish to work at the craft of creating theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed. Students participate in staged productions of both the classic and the experimental, dance, opera, cabaret, musical ensemble, and children's theatre. The Gilbert and Sullivan and the French, Greek, and Spanish clubs work in close cooperation with the theatre program. Students also have the opportunity to tour with the medieval theatre touring group and with Theatre in a Box (children's theatre).

Ms. Luz Castaños advises theatre students, and all of the theatre staff are available for discussion and conference. For further information consult the theatre office.

Students contemplating a career in the theatre should see the announcement on the Program in the Arts, page 74, and should consult the Director of the Playhouse at the earliest possible time.

There is no major or minor in Theatre, but students may concentrate on theatre either through the English Department or the Program in the Arts.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements. For other courses offered in the University, please consult the Director of the Playhouse.

## DANCE

### BC 2563x. Form in Dance Composition.

J. Soares.

### BC 2564y. Content in Dance Composition.

J. Soares.

### BC 2565x, BC 2566y. History of the Dance.

J. Roosevelt.

### BC 3574y. Contemporary Choreographers and Their Works.

Dance Staff.

*Not offered in 1984-85.*

### Greek V 3305x. Tragedy.

T. Coulter.

*Offered in alternate years. Offered in 1984-85.*

### Greek V 3307x. Comedy.

Staff.

*Offered in alternate years. Not offered in 1984-85.*

## ENGLISH

### BC 3113x, BC 3114y. Dramatic Writing.

H. Teichmann.

### BC 3121x. The Uses of Speech.

E. Caughran.

### BC 3124y. Oral Interpretation of Literature.

E. Caughran.

### BC 3127x. Public Speaking.

E. Caughran.

## CLASSICS

### Classical Literature V 3123y. Greek Drama and its Influences.

H. Foley.

# Theatre

**BC 3128y. Persuasive Speaking.**  
R. Norman.

**BC 3163x, BC 3164y. Shakespeare.**  
R. Patterson.

**BC 3169y. English Drama: 900-1642.**  
R. Patterson.

**BC 3186y. Modern Drama.**  
B. Ulanov.  
*Offered in alternate years. Offered in 1984-1985.*

**BC 3129x. History of the Theatre: Aeschylus to Ibsen.**  
L. Castaños and Theatre Staff.

**BC 3130y. Modern Theatre: An Introduction.**  
L. Castaños and Theatre Staff.

**BC 3131x, BC 3132y. Contemporary Theatre.**  
L. Castaños.

**BC 3133x, BC 3134y. Play Production.**  
D. Parichy.

**BC 3135x. The Actor's and Director's Interpretation of Dramatic Literature.**  
J. Soares.

**BC 3137x, BC 3138y. Musical Ensemble Theatre.**  
S. Kaplan and guests.

## FRENCH

**BC 3016y. Advanced Oral French.**  
Instructor to be announced.

**BC 3034x. The French Theater of the Seventeenth Century.**  
R. Geen.  
*Offered in alternate years. Offered in 1985-86.*

**BC 3039y. Twentieth-Century French Theater.**  
R. Geen.  
*Offered in alternate years. Offered in 1984-85.*

## GERMAN

**BC 3015x. Goethe.**  
G. Sakrawa.  
*Offered in alternate years. Not offered in 1984-85.*

**BC 3018x. Schiller.**  
G. Sakrawa.  
*Offered in alternate years. Offered in 1984-85.*

**BC 3025y. The Age of the Bourgeoisie in German Literature.**  
G. Sakrawa.  
*Offered every three years. Offered in 1984-85.*

**BC 3026y. Modern German Theater.**  
B. Bradley.  
*Offered in alternate years. Offered in 1984-85.*

**BC 3036x. Goethe's Faust.**  
G. Sakrawa.  
*Not offered regularly. Not offered in 1984-85.*

**BC 3046y. German Literature in the Eighteenth Century.**  
G. Sakrawa.  
*Not offered regularly. Not offered in 1984-85.*

## ITALIAN

**V 3642y. Studies in Contemporary Italian-Arts: Italian Film.**  
J. Becker.

## MEDIEVAL AND RENAISSANCE STUDIES

**BC 3081x. Italian Renaissance Courts and the Theater (1400-1600).**  
M. Lorch and H. Doris.  
*Offered every three years. Not offered in 1984-85.*

## MUSIC

**V 1005x. The Opera.**  
J. Beeson.



# Urban Affairs

Office: 407 Lehman Hall

Telephone: 280-5097, 2159

This program is supervised by the Committee on Urban Affairs:

**Professor of Political Science**

Demetrios Caraley (Chairman)

**Assistant Professor of Urban Affairs and Political Science**

Kathryn B. Yatrakis (Program Director)

**Professor of Anthropology**

Paula G. Rubel

**Professor of Economics**

Deborah D. Milenkovitch

**Professor of English**

Barry Ulanov

**Professor of Sociology**

Bernard Barber

**Assistant Professor of Urban Affairs and Political Science**

Ester Fuchs

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

## REQUIREMENTS FOR THE MAJOR\*

A major in Urban Affairs can be taken only in conjunction with a specialization in one of the regular departments.

In order to major in Urban Affairs a student must fulfill the following requirements:

a) Eight courses distributed as follows:

One course dealing primarily with urban subject matter in **each of three** of the following departments from among those courses indicated:

Anthropology V 3100

Economics W 3228

History W 4673 or W 4674

Political Science V 3313

Sociology V 3265

or Sociology V 3324

(or their equivalents)

*Urban Societies*

*The Urban Economy*

*American Urban History*

*American Urban Politics*

*Minorities in American Life*

*Urban Sociology*

One course dealing primarily with urban subject matter from a list approved by the committee in **one** other department, such as art history, architecture, English, geography, psychology, and urban planning. One course in a quantitative subject—statistics, computer science, or an equivalent methodology course. The list of specific courses and of the departments that offer specializations for urban affairs majors is available at the office of the Program Director.

In the junior year:

Urban Affairs V 3545-V 3546

*Junior Colloquia V 3545:*

*Shaping of the Modern City*

*V 3546: Contemporary Urban Problems*

\*Classes of 1985, 1986 should consult the 1983-84 Bulletin for major requirements.

# Urban Affairs

In the senior year:

Political Science-Sociology  
V 3994-V 3995

or

Planning A 6290x-6911y

or

Research Seminar in the department  
of specialization

and

*New York Area Undergraduate  
Research Program*

*Workshop in Planning Skills  
Planning*

- b) The satisfactory completion of a specialization in one of the participating departments consisting of not fewer than **five** courses and the writing in that department of a senior thesis on an urban topic.

## REQUIREMENTS FOR THE MINOR

There is no minor in Urban Affairs.

## COURSES OF INSTRUCTION

### UAF BC 3535x. Colloquium in Urban Administration and Management.

Processes of administration and management in urban organizations. Executive leadership, decision-making, bureaucracy, budgeting and personnel.—K. Yatrakis.

*Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Enrollment limited to ca. 20 students.*

*4 points. Tu 2:10-4:00.*

### UAF BC 3537x. Workshop in Urban Administration and Management.

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week.—K. Yatrakis.

*Corequisite: Urban Affairs BC 3535x.*

*2 points. Biweekly meeting to be arranged.*

### UAF V 3545x-V 3546y. Junior Colloquium in Urban Affairs.

Autumn Term: **Shaping of the Modern City.** Urbanization, using various methods, concepts, and materials. Origin and current status of urban problems.—R. Fishman. Spring Term: **Contemporary Urban Problems.** Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health.—E. Fuchs.

*Prerequisite: permission of the instructor. Enrollment limited to 15-20 students.*

*4 points.*

*V 3545: Th 2:10-4:00.*

*V 3546: W 2:10-4:00.*

### UAF BC 3964y. Senior Colloquium in Urban Affairs: Urban Prospects.

Future prospects of cities and metropolitan areas; reports on research being conducted for the senior thesis in the department of concentration.—K. Yatrakis.

*Open only to senior majors. Required for classes of 1985, 1986.*

*4 points. Tu 2:10-4:00.*

### Political Science—Sociology PSS V 3994x-V 3995y.

New York area undergraduate research program. An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. Topic for 1984-85 to be announced.—E. Fuchs.

*Prerequisite: Enrollment limited to 10-15 students, selected by application only to the instructor. Junior or senior standing is required. Participation is for two terms.*

*Note: Barnard Urban Affairs majors with a Political Science concentrate have the option to use this course to satisfy the senior thesis requirement with the approval of the Political Science department. 4 points. Tu 4:10-6:00.*



# Women's Studies

*Office: 412 Barnard Hall*

*Telephone: 280-2108*

This program is supervised by the Committee on Women's Studies:

**Assistant Professor of Economics**

Bettina Berch

**Professor of Psychology**

Lila Braine

**Assistant Professor of Political Science and Women's Studies**

Leslie Calman

**Director of Experimental Studies Program**

Joan Dulchin

**Associate Professor of Classics**

Helene Foley

**Professor of Spanish (Columbia)**

Jean Franco

**Professor of French**

Tatiana Greene

**Professor of English (Columbia)**

Carolyn G. Heilbrun

**Professor of English**

Maire Jaanus

**Professor Emeritus of Sociology**

Mirra Komarovsky

**Associate Professor of Women's Studies**

Nancy K. Miller (Chair)

**Director of the Education Program**

Susan R. Sacks

**Adjunct Associate Professor of English**

Janice Farrar Thaddeus

**Associate Professor of Spanish**

Marcia Welles

**Professor of History**

Suzanne Wemple

**Director of the Women's Center**

Temma Kaplan

**Archivist and Technical Services Librarian**

Patricia K. Ballou

**Lecturer in Health and Society**

Theresa Rogers

**Student Members**

Joanna Baker, Suzanne Broffman, Margaret Doyle, Gillian Kaye, Anna Keller, Liora Pakula.

# Women's Studies

The Women's Studies Program is an interdisciplinary program for students who wish to explore the basic questions raised by the new scholarship on women. Some of the issues touched upon in this field are: sex roles, sex differences, and the concepts of femininity and masculinity; the roles of women in culture and society, past and present, and their implications for the roles of men; questions about the distribution of power, work, and resources in the public and private domains; and the symbolic representations of gender and identity in literature, religion, and art.

Early in their sophomore year, students interested in the major should consult the Chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major (see p. 40); and have access to Columbia graduate courses, as well as V-courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Women's Center maintains an extensive and expanding resource collection on women's issues. The Center also sponsors monthly women's issues luncheons, a yearly conference, *The Scholar and the Feminist*, devoted to the exploration of the relationship of feminist studies to traditional scholarship, and the Reid Lectureship which brings to the campus distinguished women who have proved themselves to be responsive to women's concerns.

## REQUIREMENTS FOR THE MAJOR

Majors in the program are trained in interdisciplinary research skills, and focus their studies in one of two areas of specialization: history/humanities or the social sciences. An individual area of study may be developed, in special cases, in consultation with a member of the Women's Studies Committee. The major in Women's Studies is taken in conjunction with a concentration in one of the departmental disciplines.

The requirements for the major are 14 courses to be distributed as follows:

Women's Studies BC 3111	<i>Major Texts of the Feminist Tradition</i>
Women's Studies BC 3112	<i>Colloquium in Women's Studies</i>
Women's Studies BC 3521-BC 3522	<i>Senior Research Seminar</i>

5 other courses in Women's Studies (see listing below), at least three in the student's area of specialization and at least one in another area; and

5 courses other than Women's Studies courses in the department of the student's concentration, to be selected in consultation with a member of that department.

The thesis course, Women's Studies BC 3521-BC 3522 provides an opportunity for senior majors to engage in original, interdisciplinary research, and to bring to bear the theoretical emphasis of Women's Studies scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credit as Women's Studies BC 3599, *Independent Study*.



# Women's Studies

## REQUIREMENTS FOR THE MINOR

No minor is offered in Women's Studies.

## COURSES OF INSTRUCTION

### WMS BC 3111x, WMS BC 3111y. Major Texts of the Feminist Tradition.

The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J. S. Mill, A. Kollontai, Simone de Beauvoir, Emma Goldman, C.P. Gilman, Zora Neale Hurston and others in an attempt to discover the roots of the contemporary feminist movement.

x: Tu 2:10-4:00. L. Calman.

y: B. Winslow.

4 points.

### WMS BC 3112y. Colloquium in Women's Studies.

A critique of traditional knowledge based on the new interdisciplinary research on women in such fields as psychology, biology, literature, anthropology, and history. Guest lecturers will discuss their recent work.—R. Rosenberg.

*Permission of the instructor recommended for freshmen.*

4 points. W 2:10-5:00.

### WMS BC 3116y. Images of Women in 18th-Century Fiction and Painting.

Representations of the feminine in selected French and English novels and paintings.—N. Miller.  
*Not offered in 1984-85.*

3 points.

### WMS BC 3117x. Women and Film: Sexual Roles in American Cinema.

A critical interpretation of American genre films from a women's studies perspective—how the image of woman relates to the language of film.

3 points. *Not offered in 1984-85.*

### WMS BC 3120x. The Invisible Woman in Literature: The Lesbian Literary Tradition.

An interdisciplinary exploration of the lesbian experience.

3 points. *Not offered in 1984-85.*

### WMS BC 3521x-WMS BC 3522y. Senior Seminar.

Individual research in Women's Studies conducted in consultation with the instructor. The results of each research project submitted in the form of the senior essay, and presented to the seminar.

—N. Miller.

*Prerequisites: BC 3011, BC 3012. Enrollment limited to senior majors.*

4 points. M 4:10-6:00.

### WMS BC 3599x, WMS BC 3599y.

#### Independent Research.

N. Miller.

3 points. *Hours to be arranged.*

### English-Women's Studies EWS BC 3144y.

#### Minority Women Writers in the United States.

A study of the literature of twentieth century minority women writers in the United States, with particular emphasis upon the works of Asian, Black, Hispanic, and Native American women. The works will be studied within a historical and cultural as well as literary framework, exploring the ways these writers treat their particular communities and traditions and their various experiences as Americans.—Q. Stadler.

3 points. Tu Th 2:40-3:55.

(II)

### English-Women's Studies EWS BC 3145x.

#### The Female Protagonist: Readings in the French and English Novel.

The heroine and the representations of a female destiny in selected works by women writers; the texts will be studied in conjunction with contemporary feminist criticism. Lafayette, Wollstonecraft, Austen, Sand, Brontë, Eliot, Colette, Wittig.—N. Miller.

3 points. Th 4:10-6:00.

(III)

### Philosophy-Women's Studies PHI BC 3147y.

The issue of women's distinct nature is raised in light of radical feminist, traditional Marxist feminist, and contemporary socialist feminist theories.—N. Holmstrom.

3 points. *Hours to be arranged.*

### Anthropology-Women's Studies ANT V 3039x. Women in the Third World.

*Not offered in 1984-85.*

## WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS.

Students should consult the departmental and program listings for course descriptions.

### Anthropology ANT BC 3142x. Male and Female in Cultural Analysis.

A. Rosman.

### Anthropology ANT V 3021x. Sex Roles in Cross-Cultural Perspective.

*Not offered in 1984-85.*

### Art History ARH 3987x. III. Berthe Morisot and Her Contemporaries.

*Not offered in 1984-85.*

# Women's Studies

**Art History ARH BC 3977x. Modernism and Sexuality.**

M. Nesbit.

**Classical Civilization CLC V 3158y. Women in Antiquity.**

H. Foley.

**Economics ECO BC 2010y. Sex, Discrimination, the Division of Labor.**

B. Berch.

**Economics-History ECH BC 3056x. History of Women's Work.**

B. Berch.

**Education EDU BC 2032x. Contemporary Issues in Education.**

S. Sacks.

**English ENG BC 3140y. Women and Poetry: Inscribing the Feminine.**

C. Schenk.

**English ENG W 3960x. Studies in 19th Century English Literature: Female Characters in Victorian Literature.**

C. Bonica.

**Comparative Literature-English CPL W 4640y. Black Women and Their Fictions.**

*Instructor to be announced.*

**Comparative Literature CPL G 6046y. Women in Medieval Life and Literature.**

J. Ferrante.

**English ENG G 6510y. Feminist Texts.**

C. Heilbrun.

*Not offered in 1984-85.*

**Experimental Studies EXS BC 3003x. Contemporary Issues in Feminist Thought.**

J. Dulchin.

*Not offered in 1984-85.*

**French FRE BC 3020y. Special Themes in Modern French Literature: The Couple in the Twentieth-Century Novel.**

C. Holland.

**French FRE BC 3043y. French Women Writers.**

T. Greene.

*Not offered in 1984-85.*

**French FRE 3047x. Feminism and the Theory of Modernism.**

A. Boyman

**German GER BC 3055x. Women in Major Works of German Literature.**

R. Ayre.

*Not offered in 1984-85.*

**Health and Society HEA BC 3013x. Women, Health, and Health Care.**

T. Rogers.

**History HIS BC 3406x. The History of Women in the High Middle Ages.**

S. Wemple.

**History HIS BC 3409x. Monasticism in the Middle Ages.**

S. Wemple.

*Not offered in 1984-85.*

**History HIS BC 3416x. Early Modern European Culture: Imperialism and Patriarchalism.**

J. Merrick.

*Not offered in 1984-85.*

**History HIS BC 3432y. Women in Early Modern Europe.**

J. Merrick.

**History HIS BC 3450y. History of Childhood in America.**

M. Carnes.

**History HIS W 3115x. History of Women in America.**

E. Blackmar.

**History HIS W 3987x. Women in Industrial Society in Europe from 1750.**

R. Moeller.

**History HIS W 3987y. Women in Industrial Societies: Comparative Perspectives on Germany and England, 1870-1945.**

R. Moeller.

*Not offered in 1984-85.*

**International Affairs POS U 4840y. The Political Economy of Women in South and Southeast Asia.**

J. Werner, C. Szanton.

**Italian ITA V 3440y. Feminism in Italian Literature and Culture.**

M. Repetto Alaia.

*Not offered in 1984-85.*



# Women's Studies

**Medieval and Renaissance Studies MRS BC 3080y. Myth and History: The Erotic and the Divine in Medieval France.**

S. Wemple and P. Terry.  
*Not offered in 1984-85.*

**Medieval and Renaissance Studies MRS BC 3086y. Women in the Middle Ages: Ideals and Reality.**

J. Rosenthal and S. Wemple.

**Political Science POS BC 3007x. Modern Political Movements.**

L. Calman.

**Political Science POS BC 3433y. Colloquium on Concepts of Political Theory.**

L. Calman.

**Political Science POS V 3328x. Women and American Politics.**

E. Klein.

**Psychology PSY BC 3152. II. Psychological Aspects of Human Sexuality.**

W. McKenna.

**Psychology PSY BC 3371x. Psychology and Women.**

J. Doron.

## STUDY IN PARIS WOMEN'S STUDIES INSTITUTE

The Columbia/Barnard Reid Hall Programs' Women's Studies Institute, offered in conjunction with the Women's Studies Program at Barnard College, will be the first women's studies program in France sponsored by an American university. The Institute will comprise the following four courses in the 1985 spring semester.

Institute prerequisites: French 21, 22 or the equivalent, plus two semesters of work in Women's Studies.

**History-Women's Studies HWS H 3550y. Women and Society.**

Although the theme of this course will vary from one year to another, it will consistently focus on some aspect of women and society.—Instructor to be announced.

*4 points. Hours to be arranged.*

**French-Women's Studies FWS H 3450y. Contemporary French Thought and Feminist Theory: Critical Approaches to Women and Literature.**

Emphasis on the issues of gender as they affect the production of and responses to theoretical and literary texts.—N. Huston.

*4 points. Hours to be arranged.*

**Religion REL V 3700y. Women and Religion.**  
C. Weisman.

**Sociology SOC V 3303y. Female and Male: A Sociological Perspective.**

M. Komarovsky.

**Sociology SOC V 3555y. Sociology of Family Institutions.**

V. Zelizer.

**Sociology SOC G 4018x. Sex Roles and Society.**

V. Zelizer.

**Sociology SOC W 4203y. Comparative Social Policy: Women in Advanced Industrialism.**

M. Ruggie.

**Spanish SPA BC 3011x. I. Twentieth Century Women Poets of Latin America.**

A. Pizarro Rayo.

**Spanish SPA BC 3011y. I. Restless Heroines: The Independent Woman in Early Spanish Theatre.**

J. Crapotta.

**Spanish SPA W 3445y. Spanish American Women Writers of the Twentieth Century.**

J. Franco.

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B.A., Harvard; M.A., Ph.D., Yale
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A.B., Barnard; M.A., New York University; Ph.D., Columbia
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B.A., University of Michigan; Ph.D., University of California at Berkeley
- Marina Astman, 1969, Professor of Russian  
Ph.D., Columbia
- Helene H. Bacon, 1961, Professor of Classics  
A.B., Ph.D., Bryn Mawr
- Patricia K. Ballou, 1961, Archivist and Technical Services Librarian  
B.A., Oberlin; B.S., Columbia School of Library Science
- Peter D. Balsam, 1975, Associate Professor of Psychology  
B.A., State University of New York at Stony Brook; M.A., Ph.D., North Carolina
- Bernard Barber, 1952, Professor of Sociology  
A.B., M.A., Ph.D., Harvard
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B.A., M.A., Queens College
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Dottore in Filosofia; M.A., Ph.D., Cambridge
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B.A., Brandeis; Ph.D., State University of New York at Stony Brook
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B.A., Oberlin; M.A., M. Phil., Yale; Ph.D., Yale
- Joan S. Birman, 1973, Professor of Mathematics  
A.B., Barnard; M.A., Columbia; Ph.D., New York University
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B.A., Cornell; M.A., M. Phil., Columbia
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A.B., Barnard; M.A., Columbia
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A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D., Columbia
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Licence, University of Geneva; M.A., Toronto; Ph.D., Columbia
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B.A., Adrian College; M.S., University of Massachusetts
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A.B., Barnard; M.A., M.Phil., Columbia
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the Social Sciences  
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A.B., California; Ph.D., Columbia
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B.A., Harvard; M.A., Ph.D., Columbia
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B.A., Wellesley; M.A., Radcliffe; Ph.D., Columbia
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B.A., Fordham; M.A., Columbia
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# Organization

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- Alfred MacAdam, 1983, Associate Professor of Spanish  
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- John Meskill, 1960, Professor of Oriental Studies  
A.B., Harvard; Ph.D., Columbia
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A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
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B.A., Michigan; M.A., Columbia
- Joann Ryan Morse, 1957, Professor of English  
A.B., Vassar; M.A., Yale
- Mary Mothersill, 1963, Professor of Philosophy  
A.B., Toronto; M.A., Ph.D., Radcliffe
- Severine Neff, 1983, Assistant Professor of Music  
B.A., Barnard; M.A., Yale; Ph.D., Princeton
- Margaret Nesbitt, 1983, Assistant Professor of Art History  
B.A., Vassar; M.A., M. Phil., Ph.D., Yale
- Cynthia Novack, 1978, Associate in Dance  
B.A., University of California at Berkeley
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A.B., Barnard; M.A., Ph.D., Radcliffe
- Dorothea Nyberg, 1968, Associate Professor of Art History  
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- Remington P. Patterson, 1955, Professor of English  
A.B., M.A., Ph.D., Yale
- Richard M. Pious, 1973, Associate Professor of Political Science  
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- David A. Powell, 1984, Instructor in French  
B.A., West Virginia University; M.A., Pennsylvania State University
- Anne Lake Prescott, 1959-62; 1963, Professor of English  
A.B., Barnard; M.A., Ph.D., Columbia
- Jan Carl Rabinowitz, 1982, Assistant Professor of Psychology  
B.A., State University of New York at Buffalo; Ph.D.,  
University of California at San Diego
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B.S., M.Ed., State University of New York at Buffalo; Ed.D., University of Georgia
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B.A., Barnard; M.A., University of Pennsylvania
- Nicholas Rango, 1978, Samuel R. Milbank Assistant Professor of Health and Society  
B.S., St. Louis; M.D., Northwestern
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B.A., Brandeis; Ph.D., University of Connecticut
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B.A., Connecticut College; Ph.D., Brown



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B.A., Stanford University; M.A., University of Virginia
- Jeanette Schlottmann Roosevelt, 1951-58; 1962, Professor of Dance  
B.S., M.A., Texas Women's University
- Rosalind Rosenberg, 1984, Associate Professor of History  
B.A., Ph.D., Stanford University
- Jane H. Rosenthal, 1952-55; 1971, Associate Professor of Art History  
A.B., Douglass; Ph.D., Columbia
- Abraham Rosman, 1966, Professor of Anthropology  
A.B., City College of New York; Ph.D., Yale
- Nan Rothschild, 1981, Assistant Professor of Anthropology  
B.A., Vassar; M.A., Columbia; Ph.D., New York University
- Perla Rozencvaig, 1977, Instructor in Spanish  
B.A., M.A., Columbia
- Paula G. Rubel, 1965, Professor of Anthropology  
A.B., Hunter; Ph.D., Columbia
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B.A., M.A., Ph.D., University of California at Berkeley
- Susan R. Sacks, 1971, Lecturer in Education  
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia
- Gertrud M. Sakrawa, 1952, Professor of German  
M.A., Columbia; Ph.D., Vienna, Columbia
- John E. Sanders, 1969, Professor of Geology  
A.B., Ohio Wesleyan; Ph.D., Yale
- Anatol K. Sapronow, 1966, Associate in Russian  
Russian Gymnasium, Munich
- Marianna Greene Sapronow, 1967, Associate in Russian  
Russian Gymnasium, Munich
- Celeste Schenck, 1977, Assistant Professor of English  
A.B., Princeton; M.A., Ph.D., Brown
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B.A., City College of New York; M.A., Ph.D., Hunter
- Juliet Schor, 1983, Assistant Professor of Economics  
B.A., Wesleyan; Ph.D., University of Massachusetts
- Peter Schubert, 1970, Instructor in Music  
A.B., M.A., Columbia
- Alan Segal, 1980, Professor of Religion  
B.A., Amherst; M.A., Brandeis; Ph.D., Yale
- Bernice Segal, 1958, Professor of Chemistry  
A.B., Radcliffe; Ph.D., Columbia
- Daniel Selden, 1984, Assistant Professor of Classics  
B.A., Ph.D., Yale
- Mirella d'Ambrosio de Servodidio, 1964, Professor of Spanish  
B.A., Barnard; M.A., Ph.D., Columbia
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B.A., Columbia; M.A., Oxford; Ph.D., Columbia
- Marvin Shulman, 1968-69; 1975, Associate in German  
B.A., Coe; M.A., Columbia
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B.A., McGill; M.A., City University of New York; Ph.D., Rutgers

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B.S., Juilliard; M.A., Columbia
- Natalie Sonevytsky, 1959, Reference Librarian  
A.B., New Rochelle; M.S., Columbia
- Quandra P. Stadler, 1970, Associate in English  
A.B., Antioch
- Dennis Stevenson, 1980, Assistant Professor of Biology  
B.A., M.A., Ohio; Ph.D., University of California at Davis
- Howard M. Teichmann, 1946, Adjunct Professor of English  
A.B., Wisconsin
- Patricia Terry, 1958, Adjunct Associate Professor of French  
A.B., Barnard; M.A., Ph.D., Columbia
- Susanna Torre, 1982, Associate Professor of Architecture  
Architect, Universidad de Buenos Aires, Ph.D.
- Robert S. Tragesser, 1984, Assistant Professor of Philosophy  
B.A., Franklin & Marshall College; Ph.D., William Marsh Rice University
- Zoya Trifunovich, 1959, Associate in Russian  
B.S., M.A., Columbia
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- Barry Ulanov, 1951, Professor of English  
A.B., Ph.D., Columbia; Litt.D., Villanova
- Joan E. Vincent, 1968, Professor of Anthropology  
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- Frederick E. Warburton, 1963, Associate Professor of Biology  
B.Sc., M.Sc., Ph.D., McGill
- Marcia L. Welles, 1970, Associate Professor of Spanish  
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia
- Suzanne F. Wemple, 1966, Professor of History  
A.B., University of California at Berkeley; M.L.S., Ph.D., Columbia
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A.B., City College of New York
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B.A., Williams; Ph.D., Rutgers
- Kathryn Yatrakis, 1982, Assistant Professor of Urban Affairs and Political Science  
B.A., Cedar Crest College; M.A., New York University; Ph.D., Columbia
- Viviana A. Zelizer, 1978, Associate Professor of Sociology  
B.A., Rutgers; M.A., M.Phil., Ph.D., Columbia

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- Helen R. Downes, 1933-1960, Professor Emeritus of Chemistry  
Ph.D.
- Amelia A. de del Rio, 1930-1962, Professor Emeritus of Spanish  
Ph.D.
- Millicent C. McIntosh, 1947-1962, President Emeritus  
Ph.D., LL.D., Litt.D., L.H.D.
- Thomas P. Peardon, 1923-1965, Professor Emeritus of Political Science  
Ph.D.
- Lucyle Hook, 1948-1967, Professor Emeritus of English  
Ph.D.



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- Jean T. Palmer, 1946-1969, General Secretary Emeritus  
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Ph.D.
- Mirra Komarovsky, 1934-1970, Professor Emeritus of Sociology  
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- Emma Dietz Stecher, 1945-1971, Professor Emeritus of Chemistry  
Ph.D.
- Theodor H. Gaster, 1966-1972, Professor Emeritus of Religion  
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- Raymond J. Saulnier, 1938-1973, Professor Emeritus of Economics  
Ph.D., LL.D.
- George Woodbridge, 1960-1973, Professor Emeritus of History  
Ph.D.
- Marion Hamilton Gillim, 1952-1974, Professor Emeritus of Economics  
Ph.D.
- Gladys Meyer, 1948-1974, Professor Emeritus of Sociology  
Ph.D.
- Basil Rauch, 1941-1974, Professor Emeritus of History  
Ph.D.
- John Kouwenhoven, 1946-1975, Professor Emeritus of English  
Ph.D.
- Richard Youtz, 1937-1975, Professor Emeritus of Psychology  
Ph.D.
- Joseph Gerard Brennan, 1947-1976, Professor Emeritus of Philosophy  
Ph.D.
- Helen Phelps Bailey, 1933-1977, Professor Emeritus of French  
Ph.D.
- Donald D. Ritchie, 1948-1979, Professor Emeritus of Biological Sciences  
Ph.D.
- Eleanor M. Tilton, 1950-1979, Professor Emeritus of English  
Ph.D.
- LeRoy C. Breunig, 1953-1980, Professor Emeritus of French  
Ph.D.
- Richard A. Norman, 1954-1981, Professor Emeritus of English  
Ph.D.
- David A. Robertson, Jr., 1940-1981, McIntosh Professor Emeritus of English  
Ph.D.
- Margarita Ucelay, 1943-1981, Professor Emeritus of Spanish  
Ph.D.
- Chilton Williamson, 1942-1982, Professor Emeritus of History  
Ph.D.

# Organization

Leonard Zobler, 1955-1982, Professor Emeritus of Geography  
Ph.D.

Kenneth Janes, 1961-1984, Professor Emeritus of English

## Other Officers of Instruction

Fernando Alvarez, 1979, Adjunct Assistant Professor of Psychology  
B.A., Brooklyn College; M.A., Ph.D., University of California at Riverside

Howard Andrews, 1978, Adjunct Assistant Professor of Psychology  
B.A., Richmond College; Ph.D., Rutgers

Janice Ansley-Ungar, 1975, Associate in Dance  
B.F.A., Southern Methodist University; M.A., University of Illinois

John Arras, 1982, Lecturer in Philosophy  
B.A., University of San Francisco; Ph.D., Northwestern

Ann Birstein, 1981, Adjunct Associate Professor of English  
B.A., Queens College

Richard Bopp, 1982, Adjunct Assistant Professor of Environmental Studies  
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A.B., Barnard; M.A., Ph.D., Columbia

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B.A., University of Pennsylvania; Ph.D., New York University

Constance Colby, 1972, Instructor in English  
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Joanna L. Cole, 1973, Instructor in English  
B.S., Bryn Mawr; M.A., Columbia

Furio Colombo, 1978, Lecturer in Italian  
Doctor of Phil. of Law, Turin

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A.B., Barnard; M.A., Ph.D., Columbia
- Muriel M. Hollander, 1984, Instructor in French  
B.A., Lycée Royal de Forest Bruxelles; M.A., Université Libre de Bruxelles
- Olympia T. Jebejian, 1969, Associate in Chemistry  
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- Shirley Kaplan, 1977, Associate in Drama  
A.A.S., Briarcliff; Diploma, Académie de la Grande Chaumière
- Anna Kisselgoff, 1982, Lecturer in Dance  
B.A., Bryn Mawr; M.S., Columbia
- John Lad, 1980, Lecturer in Philosophy  
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- Micheline Levowitz, 1977, Adjunct Assistant Professor of French  
B.A., M.A., Ph.D., City University of New York
- Jonathan Lieberman, 1981, Visiting Assistant Professor of Philosophy  
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- Brunhilde Linke, 1976, Instructor in German  
B.A., M.A., New York University
- Ann McCoy, 1981, Visiting Artist in Art History  
B.F.A., University of Colorado; M.A., University of California in Los Angeles
- Wendy McKenna, 1980, Adjunct Associate Professor of Psychology  
B.A., Antioch; Ph.D., CUNY
- Albert Murray, 1980, Adjunct Professor of English  
M.A., New York University
- Richard Neugebauer, Lecturer in Health and Society  
B.A., M.A., Ph.D., Columbia
- Brian O'Doherty, 1970, Adjunct Professor of Art History  
M.B., M.C.H., D.P.H., University College, Dublin; M.Sc., Harvard
- Dennis B. Parichy, 1969, Instructor in Theatre  
B.S., Northwestern
- Marcia Pelchat, 1981, Adjunct Assistant Professor of Psychology  
B.A., M.A., Ph.D., University of Pennsylvania
- Anita Parzencsewski, 1982, Lecturer in English  
B.A., Barnard; M.A., Ph.D., Columbia
- Thomas Perera, 1966, Visiting Associate Professor of Psychology  
A.B., M.A., Ph.D., Columbia
- Milton Resnick, 1972, Visiting Artist in Art History
- Shanna Richman, 1979, Adjunct Assistant Professor of Psychology  
B.A., Antioch; M.A., Hunter College; Ph.D., City University of New York
- Jean Rohde, 1982, Lecturer in Sociology  
B.A., Fairleigh Dickinson University; M.A., New York University
- Theresa Rogers, 1979, Lecturer in Sociology  
B.A., Hood College; M.A., Ph.D., Columbia
- Barbara Schechter, 1980, Adjunct Assistant Professor of Psychology  
B.A., Sarah Lawrence; M.A., Ph.D., Teachers College
- Sandra Stingle, 1967, Adjunct Assistant Professor of Psychology  
A.B., Barnard; Ph.D., Columbia
- Florian Stuber, 1978, Lecturer in English  
A.B., Barnard; M.A., Columbia
- Carole Swick, 1981, Adjunct Assistant Professor of Environmental Science  
B.A., University of California, Los Angeles; M.A., University of Pennsylvania

# Organization

Timea Szell, 1979, Instructor in English  
A.B., Barnard; M.A., Columbia

Janice Thaddeus, 1956, Adjunct Associate Professor of English  
A.B., Barnard; Ph.D., Columbia

Tobi Tobias, 1977, Adjunct Assistant Professor of Dance  
B.A., Barnard; M.A., New York University

Clara Ching-Hsien Wu, 1974, Lecturer in Chemistry  
B.S., National Taiwan University; M.S., University of Virginia; Ph.D.,  
Carnegie Institute

## Officers of Administration

Ellen V. Futter, J.D., President of Barnard College and Dean in the University

Charles S. Olton, Ph.D., Vice President for Academic Affairs and Dean of the Faculty  
and Associate Professor of History

Maurice P. Arth, M.B.A., Vice President for Finance and Administration

Barbara S. Schmitter, M.A., Vice President and Dean for Student Affairs  
and Associate Professor of Psychology

Dorothy C. Weinberger, A.B., Vice President for Public Affairs

Kathryn J. Rodgers, J.D., General Counsel

### Office of the President

Olga M. Hughes, A.B., Secretary to the Board of Trustees

Novella Landau, Administrative Assistant to the President

Marla J. Stewart, M.S., Assistant to the President

### Office of the Vice President for Academic Affairs and Dean of the Faculty

Barbara Ann Hill, Ph.D., Associate Dean of the Faculty

Barbara Yamaguchi, Administrative Assistant to the Dean

### Office of the Vice President for Finance and Administration

Helen Vanides, Director of Budget and Planning

Lewis Wyman, B.A., Director of Institutional Studies

### Office of the Vice President and Dean for Student Affairs

Susan Cohn, Ph.D., Assistant to the Vice President

Anya Luchow Liberman, Ph.D., Assistant Dean

### Office of the Vice President for Public Affairs

Linda Edlow, Executive Assistant

### Office of the General Counsel

Juanita Light, B.S., Administrative Assistant

### Office of Admissions

R. Christine Royer, M.A., Director

Dolores Capece, M.A., Associate Director

Carol Gill, M.A., Associate Director

### Office of Alumnae Affairs

Irma Socci Moore, A.B., Director

Eva Miodownik Oppenheim, A.B., Associate Director

Toni Crowley Coffee, A.B., Editor, **Barnard Alumnae**

Yvonne S. Untch, Records Management Officer

Carol Huet, A.B., Alumnae Programs Coordinator



# Organization

## Office of Buildings and Grounds

Richard R. Tomlins, M.A., Director of Facilities Services  
Drew Van Hook, Director of Physical Plant  
Lester Molinari, Manager, Housekeeping and Custodial Services  
Estan Baltazar, Assistant Manager, Housekeeping  
Margaret V. O'Shea, Manager, Special Events  
Thomas Fitzpatrick, Manager, Plant Maintenance

## Office of Career Services

Martha Green, M.S., Director  
Kim Healey, B.A., Associate Director  
Jane Celwyn, M.A., Coordinator, Internship Program  
Providence Rodrigues, Student Employment Officer

## Office of College Activities

Stuart Brown, M.A., Associate Director

## Controller's Office

David C. Klein, M.B.A., C.P.A., Controller  
Lee S. Kirschbrown, B.B.A., Assistant Controller  
Betty Denking, Bursar  
Miles A. Hintzen, Assistant Controller for Restricted Funds and Investments  
Barbara H. Robbins, Accounts Payable Supervisor  
Ethel Yang, Payroll Supervisor  
Ricky White, Accountant

## Office of the Dean of Studies

Vilma M. Bornemann, M.A., Dean of Studies  
Marjorie H. Dobkin, M.A., Associate Dean of Studies/Junior Class Dean  
Grace W. King, Ph.D., Senior Class Dean  
Sandra Stingle, Ph.D., Sophomore Class Dean  
Dorothy Denburg, M.A., Freshman Class Dean  
Esther Rowland, M.A., Dean for Pre-Professional Students  
Doris L. Campbell, A.B., Assistant Dean for Transfer Services  
Marjorie Croes Silverman, Ph.D., Assistant Dean for Transfer Students  
Quandra Stadler, B.A., Assistant Dean for Foreign Students  
Timea Szell, M.A., Associate Pre-Professional Adviser  
Katherine Wilcox, B.A., Assistant Dean for Pre-Professional Students  
Doris L. Campbell, A.B., Assistant Dean for Transfer Services  
Richard Youtz, Ph.D., Director of Resumed Education

## Office for Disabled Students

Julie V. Marsteller, A.B., Dean for Disabled Students  
Susan E. Quinby, M.A., Associate Director

## Development Office

Ira M. Berger, M.Phil., Director of Development  
M. Jeannette Richardson, Financial Officer  
Regina Kemp, A.B., Research Officer  
James Crawford, M.S., Director of Corporate and Foundation Relations  
Wendy Arden, A.B., Associate Information Officer  
Michael Pleters, A.B., Grants Officer  
Patty Gelfman, M.A., Director, Special Programs  
Elizabeth Burns, A.B., Annual Fund Officer  
Florence Dempsey, A.B., Phone/Mail Coordinator  
Ruth Greenfield, A.B., Acting Associate Research Officer

# Organization

## **Office of Facilities Services**

James Z. Metalios, MCE, Director  
Margaret V. O'Shea, Manager, Special Events

## **Office of Financial Aid**

Suzanne Clair Guard, B.A., Director  
Michael E. Coop, B.A., Associate Director  
Mary Ellen O'Connor, B.A., Counselor

## **Health Services**

Harriette R. Mogul, M.D., Director  
Audrey-Jean Sheehy, M.D., Associate Director  
Kay English, M.D., Staff Physician  
Camillo L. Gugliucci, M.D., Consulting Gynecologist  
Joyce Newman, M.D., Consulting Gynecologist  
Shira Aranoff, M.D., Consulting Dermatologist  
Zira DeFries, M.D., College Psychiatrist  
Barbara Gibbs, M.D., Staff Psychiatrist  
Marian Malcolm, M.D., Staff Psychiatrist  
Robert Berson, Ph.D., Counselor  
Denise Saks, J.S.D., MA., M.S., Counselor  
Jean LeBlanc, M.S.W., Counselor  
Arleen Eisman, R.N., Nurse  
Ileane Lubell, R.N., Nurse  
Joan Whipple, R.N., Nurse

## **Office of the Higher Education Opportunity Program**

Nadine Johnson, B.A., Director, HEOP  
Francesca Cuevas, A.B., Assistant Director/Counselor

## **Language Laboratory**

Ersi L. Breunig, Director

## **Wollman Library**

Elizabeth M. Corbett, M.S., College Librarian  
Patricia K. Ballou, A.B., B.S., Technical Services Librarian and Archivist  
Tatiana Keis, M.S., Reserve Room Librarian  
Stephanie M. Krstulovic, Technical Services Librarian  
Christina Bickford, M.S., Media Services Librarian  
Natalia Sonevytsky, M.S., Reference Librarian  
Mary Ellen Tucker, M.S., Acquisitions Librarian  
Mary Giunta, M.S., Collection Management Librarian  
William J. Schilling, M.S., Assistant Reference Librarian

## **Office of Management Information Systems**

Frank L. Weiss, Ph.D., Director  
Nancy Brosan, B.S., Data-base Administrator  
Richmond Sweet, M.B.A., Systems Administrator

## **Office Services**

Winifred Price, Director  
Myrtle Tate, B.S., Manager

## **Personnel Office**

Don Swallow, M.B.A., Director  
Amy Barnes, B.A., Personnel Representative  
Rhondra Tewes, B.S., Recruitment Coordinator

## **Office of Physical Plant**

Drew Van Hook, Director  
Joseph R. Dattilo, Manager, Housekeeping and Custodial Services



# Organization

Estan Baltazar, Assistant Manager, Housekeeping and Custodial Services  
John Dowling, Manager, Plant Maintenance

## **Office of Public Relations**

Sallie Y. Slate, B.A., Director  
Melissa Mulliken, B.A., Associate Director

## **Office of Purchases and Stores**

John R. Helleis, C.P.M., Director

## **Office of the Registrar**

Virginia Shaw, A.B., Registrar and Secretary to the Faculty

## **Office of Residential Life**

Ione G.W. Gatch, Director  
Rosemarie Dackerman, Associate Director  
Jesslyn Cleary, Assistant to the Dean  
Gloria Anderson, Secretary  
Edith Phillips, Resident Director, Brooks, Hewitt, Reid  
Mary Frenzl-Berra, Resident Director, Plimpton Hall  
Barbara Anderson-Greenfield, Resident Director, 600, 616, 620, 601 West 110th Street,  
and 620 West 116th Street  
Jeannette Ruffins, Resident Director, 49 Claremont

## **Office of Safety and Security**

John Scacalossi, M.A., Director  
Betty Weems, Associate Director  
Frank Santangelo, Security Supervisor  
Peter Yevoli, Security Supervisor

## **Office for Special Academic Programs**

Flora Davidson, Ph.D., Dean

## **Office of Summer Programs**

Jean McCurry, B.A., M.A., Director  
Lori Golinko, B.A., Assistant to the Director

## **Women's Center**

Temma Kaplan, Director  
Janie Kritzman, Associate Director

## XIV. The Associate Alumnae

The Associate Alumnae of Barnard College is comprised of 25,000 members from all fifty states of the Union and more than 63 countries abroad. Members include all who have completed a year or more of study at Barnard and have left in good academic standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive *Barnard Alumnae* magazine, *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

**The Associate Alumnae** serve the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in the support of the College.

**Barnard Alumnae Council**, a nationwide group of alumnae leaders, meets annually on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 50 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

**The Associate Alumnae** is governed by a 20 member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

### **Officer of the Associate Alumnae**

Elise Alberts Pustilnik, President

### **Directors**

Olga Bendix  
Nancy Neveloff Dubler  
Glafyra Fernandez Ennis  
Blanche Goldman Etra  
Ruth Musicant Feder  
Emily Gaylord  
Clarice Cato Goodyear  
Harriet Kay Inselbuch  
Bette Kerr  
Helen M. McCann  
Joyce Pollack Montgomery  
Teresa Sivilli  
Francine Salzman Temko  
Marilyn Umlas Wachtel  
Anne Winters  
Elizabeth Wissner-Gross

### **Alumnae Trustees**

Francine du Plessix Gray  
Elise Alberts Pustilnik  
Anna Quindlen  
Renee Becker Swartz

### **Office of Alumnae Affairs**

Irma Socci Moore, Director  
Eva Miodownik Oppenheim, Associate Director  
Toni Crowley Coffee, Editor, *Barnard Alumnae*  
Yvonne S. Untch, Alumnae Records Officer  
Carol Huet, Alumnae Programs Coordinator



# XV. Barnard Area Representatives

**Barnard Area Representatives** (BARs) are qualified alumnae appointed by the Admissions and Alumnae Offices who act in liaison capacity between the College and prospective students, parents, and high school counselors. BARs frequently attend college information meetings at secondary schools, host informal gatherings for prospective students, and conduct local interviews. High school students considering Barnard and interested in speaking with a BAR may arrange an interview by writing to the individual nearest them. A listing of the BARs follows.

## Arizona

Marilyn Melton Brooks  
701 E. Hayward, Phoenix 85020

## Arkansas

Carroll Byerly Holcomb (Mrs. Norman)  
2900 N. Pierce St., Little Rock 72207

## California

Eloise A. Andrus (Mrs. Alvin F.)  
2130 San Vito Circle, Monterey 93940

Anne Aull  
208 Madrone Avenue, Larkspur 94939

Nina Thomas Bradbury  
4617 Minnesota Avenue, Fair Oaks 95628

Emily M. Chervenik  
1606 Shoreline Drive, Santa Barbara 93109

Barbara Bergman Goltz  
4240 Arguello, San Diego 92103

Joan B. Gruen  
1045 Mariposa Avenue, Berkeley 94707

Susan Romer Kaplan  
74 El Camino Real, Berkeley 94705

Adela B. Karliner  
4089 26 Street, San Francisco 94131

Eleanore Lee  
1912 McGee Avenue, Berkeley 94703

Elizabeth Thompson Ortiz  
26324 Roundtree Court, San Juan Capistrano 92675

Rita Semel (Mrs. Max)  
928 Castro Street, San Francisco 94114

Gladys L. Sessler  
3071 Buena Vista Way, Berkeley 94708

Julia Surtshin  
417 S. Barrington Avenue #103, Los Angeles 90049

# Barnard Area Representatives

## Colorado

Mrs. Carl C. Zier  
7173 Four Rivers Road, Boulder 80301

## Connecticut

Marian Bradley Blow  
4575 Congress Street, Fairfield 06430

Daria Friel, DMD  
1F Talcott Forest Road, Farmington 06032

Nancy Herring  
49-2 Indian Harbor Drive, Greenwich 06830

Sally S. Lindsay (Mrs. Hubert)  
10 Outer Road, South Norwalk 06854

Barbara Cain Rucci  
30 Granite Street, New London 06320

Sara Miller Trachten  
80 Woodside Terrace, New Haven 06515

## Delaware

Mary W. Bodenshtab  
30 Paxton Drive, Penarth, Wilmington 19803

Catherine Fox Byers  
Box 244A Rd#3, Hockessin 19707

## District of Columbia

Arden S. Ruttenberg (Mrs. Charles B.)  
4735 Butterworth Place NW, Washington, D.C. 20016

Dale Freed Sonnenberg  
3201 Cathedral Avenue NW, Washington, D.C. 20008

## Florida

Helen Roth Coughlin  
6709 N. River Blvd., Tampa 33604

Mabel S. Foust (Mrs. Roscoe T.)  
2871 N. Ocean Blvd. #2C507, Boca Raton 33431

Linda Lopez McAlister  
1326 Wales Drive, Fort Myers 33901

Tobie Levy Siegel  
Jockey Club III, 11111 Biscayne Blvd., North Miami 33161

Donna Young Waller  
3333 NW Fifth, Gainesville 32601

## Georgia

Eleanor Holland Finley  
3777 Peachtree Dunwoody Road N.E., Atlanta 30342

## Hawaii

Peggy Anne Siegmund  
616 Uluhala Street, Kailua, Oahu 96734



# Barnard Area Representatives

## Illinois

Hannah Dresner  
910 W. Ainslie, Chicago 60640

Jane Stewart Heckman  
20 W. 533 Edgewood Road, Lombard 60148

EvaLynn G. Hollander  
1750 N. Clark #1607, Chicago 60614

Deborah M. Roach  
73 E. Elm #2, Chicago 60611

## Iowa

Margaret M. Brennan  
645 44 Street, Des Moines 50312

## Kansas

Jo Clare Mangus  
P. O. Box 397, Goodland 67735

Carol H. Sader  
8612 Linden Drive, Prairie Village 66207

## Kentucky

Lea Hayes Fischbach (Mrs. John T.)  
11805 Arbor Drive East, Anchorage 40223

Ruth Lerman Fitzpatrick  
547 N. Broadway, Lexington 40508

## Louisiana

Kathleen C. Causey  
1206 Riverside Drive, Monroe 71201

Alice M. Jacobs  
902 Montegue Street, New Orleans 70117

## Maryland

Sonya L. Gordon  
6300 Owen Place, Bethesda 20817

Norma Garfen Pressman  
3212 Labyrinth Road, Baltimore 21208

Joyce Seidman Shankman  
9502 Clement Road, Silver Spring 20910

## Massachusetts

Dorothy Chen-Courtin  
12 Regis Road, Andover 01810

Diane Levine Gardener  
35 Stoneleigh Circle, Watertown 02172

Evelyn D. Giaccio  
118 B Holden Green, Cambridge 02138

Barbara G. Glazerman  
14 Perry Lane, Weston 02193

Ann Dawson Johnson  
9 Hickory Drive, Florence 01060

# Barnard Area Representatives

Susanna M. Leers  
34 Fruit Street, Worcester 01609

Barbara Mann  
29 Phillips Street, Boston 02114

Bonnie M. Orlin  
433A Dedham Street, Newton 02159

Adrienne Aaron Rulnick  
141 Wendell Avenue, Pittsfield 02101

Catherine Feola Weisbrod  
52 Monument Avenue, Charlestown 02129

## Michigan

Patricia Z. Levine  
1115 Country Club Drive, Bloomfield Hills 48013

Denise Jackson Lewis  
19526 Roslyn Road, Detroit 48221

Mrs. Margo C. Parker  
1100 Berkshire Road, Grosse Pointe Park 48230

Jean Russell Miller Rich  
14885 Greenview, Detroit 48223

## Minnesota

Linda M. Barrows  
2837 Monterey Parkway, Minneapolis 55416

## Mississippi

Diane Ross, M.D.  
Coastal Medical Center Gateway Executive Park, Biloxi 39531

## Missouri

Audrey Middlebrook DeVoto  
1525 Walpole Drive, Chesterfield 63017

Elaine Guenther (Mrs. W.H.)  
1901 Lovers Lane, St. Joseph 64505

## New Jersey

Janet Bersin Finke  
518 Highland Avenue, Ridgewood 07450

Leslie Kallus  
5 Fairway Avenue, W. Orange 07052

Gloria M. Karsten  
2350 Route 10 #F-2, Morris Plains 07950

Cheryl Foa Pecorella  
107 Walnut Drive, Tenafly 07670

Victoria Taylor Robertson  
403 N. Washington Avenue, Moorestown 08057

Jean Miller Wilson  
c/o Union Hill Printing Company  
1061 Slocum Avenue, Ridgefield 07657



# Barnard Area Representatives

## New Mexico

Alfonsina Rechichi-Sabbas  
3055 Trinity Unit 512, Los Alamos 87544

## New York

Jane Elizabeth Allen  
20 Patricia Lane, Woodstock 12498

Yvonne B. Bregman  
4-A Adrian Court, Peekskill 10566

Mary Ann D'Alto  
2462 Marie Court, Bellmore 11710

Athene Schiffman Goldstein  
20 Varinna Drive, Rochester 14618

Dr. Audrey Margolies  
3446 Steven Road, Baldwin Harbour 11510

Kathie Plourde  
Rushmore Road, Stormville 12582

Georgina Marrero Scherzer  
39 Maple Avenue, Hamilton 13346

Sally J. Wendt  
10 Colony Street, Ardsley 10502

## North Carolina

Lisa E. Deitsch  
c/o Duke University Law School  
Tower View Road, Durham 27706

Nahomi Harkavy  
700 Southeastern Bldg., Greensboro 27401

## Ohio

Lizabeth Moody Buchmann  
17210 Parkland Drive, Shaker Heights 44120

Wendy Reilly  
855 Hickory Hollow Road, Troy 45373

Marjorie Lynn Aylem Sillery  
969 Woodlyn Drive N., Cincinnati 45230

## Oklahoma

Adele Charlat Blom  
6418 S. Sandusky, Tulsa 74136

Patricia A. Stephens  
607 N.E. 15 Street, Oklahoma City 73104

## Oregon

Marcia A. Kellmer  
2380 S.W. Timberline Drive, Portland 97225

# Barnard Area Representatives

## Pennsylvania

Nancy A. Charkes  
428 Witley Road, Wynnewood 19096

Charlene Reidbord Ehrenwerth  
761 Pin Oak Road, Pittsburgh 15243

Joyce A. Monaco (Mrs. Eugene G.)  
126 Westminster Drive, Wallingford 19086

Suzanne M. Perrin  
301 Race Street #510, Philadelphia 19100

Nury Reichert  
6 Summit Place, Philadelphia 19128

## Rhode Island

Nancy J. Mayer  
Poppasquash Road, Bristol 02809

Judy Mitchell  
641 East Avenue, Pawtucket 02860

## Texas

Patricia Bodell Bajenski  
2829 Timmons Lane, #182, Houston 77027

Louise Restituto Begley  
1605 Johnny Miller Trail, Austin 78746

Natalie Mayer Beller  
370 Pike Road, San Antonio 78209

Patricia Caycedo  
1132 Rutland Street, Houston 77008

Kathleen Claffy  
107 Woodhaven Lane, Seabrook 77586

Mary Lou Lempert  
9220 Sunny Brook Lane, Dallas 75220

Mary Davis Williams (Mrs. Clifford K.)  
4215 Ridge Road, Dallas 75229

## Vermont

Maida Zuparn Hodges  
Minister Brook Road, Box 400, Worcester 05682

## Virginia

Barbara Heinzen Colby (Mrs. William E.)  
1200 N. Nash Street #1118, Arlington 22209

Margery Knowles Owen  
3 Greenway Lane, Richmond 23226

## Washington

Mrs. Bjorn Lih  
2122 Harris, Box 923, Richland 99352

Diane C. Stein  
7217 57 NE Avenue, Seattle 98115

Margaret Fahey Wallace  
2956 72 SE, Mercer Island 98040



# Barnard Area Representatives

## Wisconsin

Lynne Kleinman  
6183 N. Berkeley Boulevard, Whitefish Bay 52317

Cecilia Diaz Norris  
731 Wisconsin River Drive, Port Edwards 54469

## FOREIGN COUNTRIES

### Canada

Paula Bercovitch  
5783 Palmer Avenue  
Montreal, Quebec H4W 2P6

Ms. Wendy Bloch  
119 Elm Ridge Drive  
Toronto, Ontario M6B 1A6

### England

Dr. Lauren E. Storck  
North Villa, Vale of Health  
London NW3 IAX

### France

Ms. Danielle Haase-Dubosc  
Director, Reid Hall  
4 Rue de Chevreuse, Paris 6

### Greece

Ann Cacoullos  
Nikes 13, Paradisos, Halandri  
Athens

### Israel

Mrs. Judy Hurwich  
31 Shmaryahu Levin 31  
96664 Jerusalem

### Italy

Ms. Bethanie Turitz Alhadeff  
via P. Scottocorno 16  
20129 Milano

### Switzerland

Mrs. Donna R. Erstling  
Chemin du Paradou  
1291 Commugny

### The Netherlands

Mrs. Alice Ribbink-Goslinga  
Slotlaan 45  
3062 PL Rotterdam

# XVI. Scholarship Funds

## UNRESTRICTED<sup>1</sup>

### **Mary Allen Scholarship Fund (1981).**

By bequest of Mary Allen in memory of her friend and classmate Ruth Marley '18. \$10,000.

### **Neils J. Allison Fund (1964).**

From the estate of Beatrice C. Allison '12. \$55,229.

### **Alumnae Scholarship Fund (1922).**

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$25,180.

### **Arthur G. Altschul Scholarship Fund (1984).**

Established by his family and friends, and by the Trustees of the College on the occasion of his retirement from the Board of Trustees. Income awarded annually to Barnard Students. \$160,128.

### **Anna E. Barnard Scholarship Fund (1899).**

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

### **Joan H. Baum Scholarship Fund (1977).**

By the Trustees out of funds left to the College by a bequest of Joan H. Baum '52. \$5,000.

### **Frances E. Belcher Scholarship Fund (1963).**

By bequest of Miss Frances E. Belcher. \$42,257.

### **Ruth Marshall Billikopf Scholarship Fund (1950).**

In honor of Ruth Marshall Billikopf '19. \$5,000.

### **Varian White Blumberg Scholarship Fund (1952).**

From the estate of Varian White Blumberg '13. \$5,000.

### **Elizabeth M. Bogardus Scholarship Fund (1976).**

By the Trustees out of funds left to the College by a bequest of Elizabeth M. Bogardus '44. \$20,357.65.

### **Charles E. Bogert Memorial Scholarship and Anna Shippen Young Bogert Memorial Scholarship Fund (1913).**

By bequest of Annie P. Burgess. \$10,000.

### **Eva-Lena Miller Booth Scholarship Fund (1932).**

In memory of Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

### **Dorothy S. Boyle Scholarship Fund (1978).**

By the Trustees out of funds left to the College by a bequest of Dorothy S. Boyle '40. \$56,043.

### **Josephine Brand Scholarship Fund (1970).**

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$24,678.

### **Brearley School Scholarship Fund (1889).**

By pupils and former pupils of the Brearley School. \$3,000.

### **Martha Ornstein Brenner Scholarship Fund (1915).**

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

### **Arthur Brooks Fund (1897).**

As a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence, by Olivia E. Phelps Stokes. \$5,000.

<sup>1</sup>Figures indicate principal of funds as of January 1, 1984.



# Scholarship Funds

## **Margaret Bullowa Scholarship Fund (1979).**

By the Trustees out of the funds left to the College by a bequest of Dr. Margaret Bullowa '30. \$18,807.

## **Elsa B. Bunn Scholarship Fund (1980).**

By the Trustees out of funds left to the College by a bequest of Elsa B. Bunn '18. \$129,722.

## **Elizabeth Hobe Burnell Scholarship Fund (1971).**

By bequest of Elizabeth Hobe Burnell '20. \$58,041.

## **Fanny Steinschneider Clark Scholarship Fund (1978).**

By bequest of Fanny S. Clark '24. \$34,250.

## **Thomas F. Clark Students' Fund (1928).**

By bequest of Mrs. Fanny Foster Clark. \$100,000.

## **Jennie B. Clarkson Scholarship Fund (1898).**

By Mrs. W. R. Clarkson. \$3,000.

## **Class of 1918 Scholarship Fund (1975).**

In memory of Marian McCaffrey Backus and other deceased members of the class of 1918, by bequest of Andrew P. Backus. \$9,195.

## **Class of 1921 Scholarship Fund (1931).**

A tenth reunion gift by the class of 1921. \$2,500.

## **Class of 1925 Scholarship Fund (1975).**

A fiftieth reunion gift by the class of 1925. \$14,675.

## **Class of 1926 Scholarship Fund (1981).**

A fifty-fifth reunion gift by the class of 1926. \$6,945.

## **Class of 1930 Scholarship Fund (1975).**

A forty-fifth reunion gift in memory of Margaret Holland, by the class of 1930. \$6,795.

## **Class of 1931 Memorial Scholarship Fund (1981).**

A fiftieth reunion gift by the class of 1931 in memory of departed classmates. \$13,278.

## **Class of 1933 Scholarship Fund (1973).**

A fortieth reunion gift by the class of 1933. \$97,670.

## **Class of 1935 Scholarship Fund (1975).**

A fortieth reunion gift by the class of 1935. \$8,725.

## **Class of 1936 Scholarship Fund (1971).**

A thirty-fifth reunion gift by the class of 1936. \$8,957.

## **Class of 1947 Memorial Scholarship Fund (1982).**

A 35th class reunion gift in memory of all deceased classmates. \$5,610.

## **Class of 1953 Scholarship Fund (1973).**

A twentieth reunion gift by the class of 1953. \$5,255.

## **Class of 1954 Scholarship Fund (1955).**

Gifts of the class of 1954 through their twentieth reunion. \$8,877.

## **Class of 1959 Scholarship Fund (1974).**

In memory of Jacqueline Zelniker Radin '59. \$15,025.

## **Class of 1963 Scholarship Fund (1983).**

A twentieth reunion gift by the class of 1963, in memory of all deceased classmates. \$5,044.

# Scholarship Funds

## **Class of 1981 Scholarship Fund (1982).**

A gift from the Class of 1981 in honor of their graduation. \$8,763.

## **Martine Cobanks Scholarship Fund (1973).**

From the Estate of Alvena Martine Cobanks '19. \$10,000.

## **College Bowl Scholarship Fund (1968).**

With gifts from the General Electric Company, *Seventeen* Magazine, and Gimbels Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

## **Yvonne Moen Cumerford Scholarship Fund (1972).**

By bequest of Yvonne Moen Cumerford '23. \$10,000.

## **Caryl M. Curtis Scholarship Fund (1980).**

In memory of Caryl M. Curtis '32, by her mother Irene H. Cohn. \$20,000.

## **Vera B. David Scholarships (1962).**

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

## **Ada M. Donelle Scholarship Fund (1948).**

By bequest of Mrs. Ada M. Donelle. \$121,751.

## **L. Adele Dorsett Fund (1971).**

By bequest of Herman F. Smaltz in memory of L. Adele Dorsett Smaltz '06. \$1,000.

## **Helen Geer Downs Scholarship Fund (1974).**

By the Trustees out of funds left to the College by Helen Geer Downs '40. \$10,000.

## **Amelia Cary Duncan Scholarship Fund (1976).**

In memory of Amelia Cary Duncan, by an anonymous donor. \$140,434.

## **May Parker Eggleston Scholarship Fund (1977).**

By the Trustees out of funds left to the College by a bequest of May Parker Eggleston '04. \$6,335.

## **Betty Eisenstadt Fund (1982).**

In memory of Sarah and Israel Gillman and of Betty Eisenstadt, by Mr. Benjamin Eisenstadt. \$5,000.

## **Sarah Engel Scholarship Fund (1973).**

From the Estate of Sarah Engel '15. \$10,000.

## **Laura Teller Ericsson Scholarship Fund (1976).**

In memory of Laura Teller Ericsson '32, by the Trustees out of funds left to the College by a bequest of Maude T. Griffing. \$21,118.

## **Margaret Jane Fischer Scholarship Fund (1968).**

With a gift from Margaret Jane Fischer '35. \$10,014.

## **Fiske Scholarship Fund (1895).**

By Mrs. Martha T. Fiske-Collord. \$5,000.

## **Edyth Fredericks Scholarship Fund (1974).**

In honor of Edyth Fredericks, by her niece Ellina Golub. \$11,580.

## **Clara Lillian Froelich Scholarship Fund (1979).**

By the Trustees out of funds left to the College by the life income contract of Clara Lillian Froelich '15. \$30,526.

## **Doris P. Gallert Scholarship Fund (1970).**

By the Trustees out of funds left to the College by a bequest of Doris P. Gallert. \$6,000.

## **Galway Fund (1912).**

By an anonymous donor. \$2,400.



# Scholarship Funds

**Anita Hyman Glick Scholarship Fund (1968).**

In memory of Anita Hyman Glick '62 by her family and friends. \$13,235.

**Irma Alexander Goldfrank Fund (1919).**

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

**Harriet Wilinsky Goodman and Sylvan A. Goodman Scholarship Fund (1983).**

Established by Harriet Wilinsky Goodman '27. Awarded annually to needy students. \$5,000.

**Elsa Gottlieb Scholarship Fund (1982).**

By the Estate of Sarah Elsa Gottlieb '13. \$25,137.

**Graham School Scholarship Fund (1907).**

By the Graham Alumnae Association. \$7,300.

**Blanche Kazon Graubard Scholarship Fund (1981).**

By Blanche Kazon Graubard '36. Awarded annually to a deserving student. \$35,449.

**Ethel C. Gray Scholarship Fund (1973).**

By the Trustees out of funds left to the College by a bequest of Ethel C. Gray '17. \$5,230.

**Louise H. Gregory Scholarship Fund (1955).**

With gifts in memory of Louise H. Gregory. \$4,547.

**Hetta Stapff Halloran Scholarship Fund (1977).**

By the Trustees out of funds left to the College by a bequest of Hetta Stapff Halloran '11. \$10,000.

**Harkness Scholarship Fund (1939).**

With a gift from Edward S. Harkness. \$100,000.

**Jane Harnett Scholarship Fund (1978).**

By the Trustees out of funds left to the College, and by gifts from her family and friends. \$7,052.

**Helen May Smith Helmle Scholarship Fund (1973).**

By the Trustees out of funds left to the College by the life income contract of Helen May Smith Helmle '30. \$72,932.

**Margaret Holland Scholarship Fund (1975).**

In memory of Margaret Holland, by the Trustees out of funds left to the College by Margaret Holland. \$22,850.

**Rita Hilborn Hopf Memorial Scholarship Fund (1966).**

By bequest of Rita Hilborn Hopf '14. \$270,403.

**Charles Evans Hughes Scholarship Fund (1952).**

By bequest of Charles Evans Hughes. \$14,300.

**Eleanor Levison Israel Scholarship Fund (1976).**

By the Trustees out of funds left to the College by a bequest of Eleanor Levison Israel '39. \$5,000.

**Lucie Burgi Johnson Scholarship Fund (1979).**

By the Trustees out of funds left to the College by a bequest of Lucie Burgi Johnson '17. \$5,000.

**Lily Murray Jones Scholarship Fund (1950).**

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

**Mildred K. Kammerer Scholarship Fund (1973).**

By bequest of Mildred K. Kammerer '19. \$9,050.

**Mirra Komarovsky Scholarship Fund (1975).**

With gifts from alumnae and other friends. \$8,494.

# Scholarship Funds

**Lucile Wolf Koshland Scholarship Fund (1980).**

By the Trustees out of funds left to the College by a bequest of Lucile Wolf Koshland '19. \$10,000.

**Elsie M. Kupfer Scholarship Fund (1975).**

By the Trustees out of funds left to the College by Elsie M. Kupfer '99. \$31,302.

**Margaret Irish Lamont Scholarship Fund (1978).**

By the Trustees out of funds left to the College by a bequest of Margaret Irish Lamont '25. \$10,050.

**Augusta Larned Scholarship Fund (1924).**

By bequest of Augusta Larned. \$10,000.

**Marjorie Herrmann Lawrence Scholarship Fund (1965/67).**

In memory of Marjorie Herrmann Lawrence '19. By the Trustees out of funds left to the College and by gifts from the family. \$40,290.

**Yves LeMay Scholarship Fund (1982).**

In memory of Yves LeMay '52, with gifts from classmates and friends. \$5,160.

**Harriett Mooney Levy Scholarship Fund (1965).**

By bequest of Harriett Mooney Levy. \$69,339.

**Joan Sperling Lewinson Scholarship Fund (1955).**

With gifts from Joan Sperling Lewinson '13. \$43,489.

**Judith Lewittes Scholarship Fund (1957).**

In memory of Judith Lewittes '55, by her family and friends. \$6,972.

**Anne Elizabeth Lincoln Scholarship Fund (1963).**

From the estate of Anne Elizabeth Lincoln '24. \$8,441.

**Amv Loveman Scholarship.**

See Prizes, page 311.

**Louise Grace Luby and James Luby Scholarship Fund (1947).**

From the estate of Grace Farrant Luby '93. \$5,000.

**Barbara Scoville Maarschalk Scholarship Fund (1977).**

By the Trustees out of funds left to the College by a bequest of Barbara Scoville Maarschalk '32. \$5,000.

**Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).**

With a gift from Stephanie Mattersdorf Miller.

**Cecile Lehman Mayer Scholarship Fund (1962).**

With a gift from Mr. and Mrs. Mazur. \$25,000.

**Leo Mayer Scholarship Fund (1972).**

In memory of Leo Mayer by her family. Awarded in alternate years by Barnard College and Columbia College to a deserving student. \$2,000.

**Adele Duncan McKeown Scholarship Fund (1973).**

By the Trustees out of funds left to the College by a bequest of Adele Duncan McKeown '11. \$5,000.

**Memorial Scholarship Fund (1954).**

To receive contributions in memory of deceased alumnae and friends. \$65,050.

**Dorothy E. Miner Scholarship Fund (1977).**

In memory of Dorothy E. Miner '26, with gifts from her family and friends. Awarded to deserving female students. \$8,875.

**Gladys Bateman Mitchell Scholarship Fund (1980).**

By the Trustees out of funds left to the College by a bequest of Gladys B. Mitchell '14. \$10,320.



# Scholarship Funds

**William Moir Scholarship Fund (1912).**

In memory of William Moir by his wife. \$10,000.

**Gulli Lindh Muller Scholarship Fund (1972).**

By the Trustees out of funds left to the College by the life income contract of Dr. Gulli Lindh Muller '17. \$31,901.

**Caroline Church Murray Fund (1918).**

In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

**Annette Florance Nathan Scholarship Fund (1947).**

By bequest of Frederick Nathan, in memory of Annette Florance Nathan. \$3,000.

**Dora R. Nevins Scholarship Fund (1969).**

In memory of Dora R. Nevins, by bequest of Nannie R. Nevins. \$12,500.

**Ann Whitney Olin Scholarship Fund (1982).**

In honor of Ann Whitney Olin '27, with a gift from Monticello College Foundation. \$30,000.

**Dorothy Brockway Osborne Scholarship Fund (1976).**

By the Trustees out of funds given to the College from her life income contract. \$12,355.

**Lucretia Perry Osborn Scholarship Fund (1940).**

In memory of Lucretia Perry Osborn, by her family and friends. \$5,000.

**Elizabeth Palmer Scholarship Fund (1972).**

By the Trustees of funds left to the College by Elizabeth Palmer '15. \$20,000.

**Jean T. Palmer Scholarship Fund (1969).**

By gifts of alumnae and other friends. \$127,520.

**Josephine Bay Paul Scholarship Fund (1978).**

By the Charles Ulrick and the Josephine Bay Foundation. \$70,000.

**Frances Moore Plunkert Scholarship Fund (1973).**

In memory of Frances Moore Plunkert '33, by the Trustees out of funds left to the College by a bequest of William J. Plunkert. \$10,000.

**Lucy Powell Scholarship Fund (1971).**

By the Trustees out of funds left to the College by the life income contract of Lucy Powell '13. \$5,652.

**M. Gladys Quinby Scholarship Fund (1961).**

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

**Jacqueline Zelniker Radin Scholarship (1975).**

With gifts from the family and friends of Jacqueline Zelniker Radin '59. \$6,798.

**Eleanor Kaiser Reinheimer Scholarship Fund (1976).**

By the Trustees out of funds left to the College by a bequest of Eleanor Kaiser Reinheimer '28. \$5,000.

**Eva Rich Scholarship Fund (1968).**

By a bequest of Eva Jacobs Rich '07. \$53,243.

**Peter C. Ritchie, Jr. Scholarship Fund (1937).**

By bequest of Virginia J. Ritchie. \$4,436.

**Margaret Miller Rogers Scholarship Fund (1976).**

By the Trustees out of funds left to the College by a bequest of Margaret Miller Rogers '23. \$13,779.

**Edith Lowenstein Rossbach Memorial Scholarship Fund (1959).**

In memory of Edith Lowenstein Rossbach '19, by her family, friends and classmates. \$23,304.

# Scholarship Funds

**Carrie W. and Corine A. Rowe Scholarship Fund (1979).**

By a bequest of Corine A. Rowe '25. \$20,522.

**Edna Heller Sachs Scholarship Fund (1955).**

With a gift from Edna Heller Sachs '10. \$16,260.

**May and Edgar Salinger Scholarship Fund (1971).**

In memory of Isaac and Eugenie Herrmann by bequest of May H. Salinger. \$688,798.

**Eleanor Butler Sanders Scholarship Fund (1922).**

By bequest of Henry M. Sanders. \$10,000.

**Anna M. Sandham Scholarship Fund (1922).**

By bequest of Anna M. Sandham to Columbia University. \$10,000.

**Katherine D. Schlayer Scholarship Fund (1975).**

With gifts from Katherine D. Schlayer '43. \$20,000.

**Schmitt-Kanefent Scholarship Fund (1931).**

By bequest of Catherine Schmitt. \$7,102.

**Scholarship Fund (1901).**

By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

**Katherine Flint Shadek Scholarship Fund (1961).**

By Katherine Flint Shadek '44. \$29,500.

**Dorothy Nolan Sherman Scholarship Fund (1983).**

Established by Dorothy Nolan Sherman '35. Awarded annually to needy students. \$10,000.

**Anne Victoria Shutkin Scholarship Fund (1983).**

Established by family and friends on the occasion of her birth. Awarded annually to Barnard students. \$6,530.

**Max Sloman Scholarship Fund (1971).**

By the Trustees out of funds left to the College by Max Sloman. \$16,200.

**Emily James Smith Scholarship Fund (1899).**

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

**Frances M. Smith Scholarship Fund (1974).**

By the Trustees out of funds left to the College by Frances M. Smith '32. \$199,648.

**George W. Smith Scholarship Fund (1906).**

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

**Sylvia W. Stark Scholarship Fund (1981).**

By the Trustees out of funds left to the College by a bequest of Sylvia W. Stark '26. \$127,691.

**C. V. Starr Scholarship Fund (1983).**

Endowed as a memorial to C.V. Starr, by the Starr Foundation. Awarded annually to students on the bases of merit and need. \$166,000.

**Claire Wander Stein Financial Aid Fund (1981).**

By Claire Wander Stein '36. Awarded annually to needy students. \$73,200.

**Edna Phillips Stern Scholarship Fund (1952).**

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.



# Scholarship Funds

## **Eleanor Holden Stoddard Fund (1977).**

By the Trustees out of funds left to the College by a bequest of Eleanor Holden Stoddard '05. \$5,000.

## **Isabel Greenbaum Stone Scholarship Fund (1957).**

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$49,987.

## **Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).**

With a bequest from Ethel G. Sturtevant, former Assistant Professor of English. \$20,000.

## **Solon E. Summerfield Foundation Scholarship Fund (1960).**

By gifts from the Solon E. Summerfield Foundation. \$37,000.

## **Thrift Shop Scholarships (1938).**

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

## **Miriam Tobias Scholarship Fund (1980).**

By the Trustees out of funds left to the College by a bequest of Miriam Tobias '35. \$83,973.

## **Veltin School Scholarship Fund (1905).**

By the alumnae of Mlle. Veltin's School. \$3,000.

## **Florence Meyer Waldo Scholarship Fund (1980).**

By the Trustees out of funds left to the College by a bequest of Florence Meyer Waldo '05. \$5,000.

## **Alma F. Wallach Scholarship Fund (1951).**

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$8,477.

## **Dorothy Calman Wallerstein Scholarship Fund (1976).**

By the Trustees out of funds left to the College by a bequest of Dorothy Calman Wallerstein '09. \$71,731.

## **Ella Weed Scholarship Fund (1895).**

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

## **Hymen and Helen Werner Scholarship Fund (1964).**

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$13,868.

## **Fern Yates Memorial Scholarship Fund (1980).**

In memory of Fern Yates '25, by her classmates and friends. \$7,272.

## Restricted<sup>1</sup>

### **Patricia Leigh (Pat) Abbott Scholarship Fund (1981).**

In memory of Pat Abbott by her mother and father, Marian and Forrest Abbott; for a student or students, who might have in the course of their lifetime, overcome serious physical difficulties. \$6,475.

### **Mary Gertrude Edson Aldrich Fund (1916).**

By Mrs. James Herman Aldrich. For a student, in her senior year, who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

<sup>1</sup>Figures indicate principal of fund as of January 1, 1984.

# Scholarship Funds

## **Axe-Houghton Scholarship Fund (1977).**

By the estate of Dorothy Houghton '23. For Barnard students with financial need who have completed at least one-half of the courses required for the Bachelor's Degree, who shall have a cumulative average grade of at least 3.0. \$600,000.

## **Bertha R. Badanes Scholarship Fund (1966).**

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$25,000.

## **Barnard College Club of Brooklyn Scholarship Fund (1944).**

By the Barnard College Club of Brooklyn. Awarded annually to a student from the Brooklyn area. \$5,041.

## **The Barnard College Club of Detroit Scholarship (1958).**

A tuition scholarship with variable stipend. Preference to be given to a new student from Metropolitan Detroit.

## **Barnard College Club of Houston Scholarship Fund (1969).**

For students from the Houston area. \$22,600.

## **Barnard College Club of New York Scholarship Fund (1952).**

For a Barnard student whose home is outside the area of the City of New York. \$55,920.

## **Barnard-in-Westchester Endowment Fund (1962).**

By the Barnard College Club of Westchester County. Preference to be given to students from Westchester County. \$22,191.

## **Barnard School Alumnae Scholarship Fund (1916).**

By the alumnae of the Barnard School for Girls. Preference to be given to nominees of the school. \$4,000.

## **Willina Barrick Memorial Scholarship Fund (1936).**

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

## **Irving Berlin Scholarship Fund (1950).**

By Irving Berlin. For one or more Barnard students of foreign-born parentage. \$23,500.

## **June Rossbach Bingham Scholarship Fund (1976).**

In honor of June Rossbach Bingham '40, by her family. Awarded to a Barnard student majoring in English, preferably one who is interested in pursuing a writing career. \$19,185.

## **Ida Blair Memorial Fund (1937).**

In memory of Ida Blair by the Women's Democratic Union. For the purchase of books for a student, preferably one studying political science. \$700.

## **Alice Marie-Louise Brett Scholarship Fund (1930).**

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. For a student, in the senior year, specializing in French. \$10,000.

## **William Tenney Brewster and Anna Richards Brewster Fund (1961).**

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000. \$166,614.

## **Anne Brown Endowment Scholarship Fund (1939).**

In memory of Anne Brown, by the Anne Brown Alumnae Association. For Barnard students from the City of New York. \$31,339.



# Scholarship Funds

## **Carpentier Residence Scholarship Fund (1919).**

By bequest of Horace W. Carpentier. For students who are not residents of New York City or its vicinity. \$200,000.

## **Therese Cassel Scholarship Fund (1973).**

By bequest of Therese Cassel '11. For students who were born in New York City, preferably those whose mothers were born in New York City and attended Barnard College. \$5,000.

## **Eliza Taylor Chisholm Memorial Scholarship Fund (1901).**

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

## **C.I.T. Financial Corporation Scholarship Fund (1979).**

In honor of Eleanor Thomas Elliott '48. Awarded annually to a student doing distinguished work in economics. If no such student exists in a given year, at the discretion of the College's Scholarship Committee, it may be awarded to a student doing exceptional work in mathematics or political science. \$10,000.

## **Mrs. Henry Clarke Coe Scholarship Fund (1910).**

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

## **Class of 1919 Decennial Fund (1929).**

A tenth reunion gift by the Class of 1919. For a resident student. \$5,100.

## **Class of 1926 Emergency Student Aid Fund (1976).**

A fiftieth reunion gift by the Class of 1926. Income to provide emergency financial aid for needy Barnard students. \$11,205.

## **Class of 1949 Scholarship Fund (1974).**

A twenty-fifth reunion gift by the Class of 1949. For an incoming freshman. \$7,783.

## **Charles A. Dana Scholarship Fund (1982).**

Established by the Dana Foundation with a challenge grant of \$506,135 to be matched by the College. The income awarded to students designated Dana Scholars, as specified in the guiding principles for the program.

## **Babette Deutsch Scholarship Fund (1978).**

In honor of Babette Deutsch's 60th reunion at Barnard College, by gifts from her family and friends. Awarded to Barnard students who have demonstrated exceptional ability in the literary disciplines of poetry, criticism, or translation. \$5,190.

## **Marie Ward Doty Scholarship Fund (1981).**

In honor of Marie Ward Doty '36, a forty-fifth reunion gift. Awarded preferably to daughters of parents in law enforcement or related fields. \$65,000.

## **Augusta Salik Dublin Scholarship Fund (1960).**

In memory of Augusta Salik Dublin '06, by her family and friends. To enable a student to continue education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,232.

# Scholarship Funds

## **Christine H. Elde Memorial Scholarships (1968).**

Scholarships of up to \$1,000 each awarded biannually to students in their junior year who are majoring in anthropology or in English, with preference given to the former. \$92,133.

## **Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).**

By the major electrical contracting firms of New York City. For sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

## **May Parker Eggleston Scholarship Fund (1972).**

By Mrs. Cary Eggleston '04. For a science student, preferably a student planning to attend medical school. \$6,335.

## **English Scholarship Fund (1920).**

By an anonymous donor. For a student of good standing who is specializing in English. If in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

## **Gladys Renshaw Esterbrook Scholarship Fund (1958).**

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference to be given to students majoring in English or French. \$5,000.

## **Martha T. Fiske Scholarship Fund (1911).**

In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. For a student who is not a resident of New York City or its suburbs. \$5,000.

## **Henry C. Kuever and Frederich W. A. Fuller Scholarship Fund (1981).**

By bequest of Annie F. Kuever '15, in memory of her husband and father. Awarded annually to a needy student majoring in music, preferably the violin. If there be no such student, preference should be given to a needy student majoring in Greek or mathematics. \$10,200.

## **Helen Jenkins Geer Scholarship Fund (1940).**

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

## **German Scholarship Fund (1950).**

See Prizes, page 313.

## **Virginia Gildersleeve International Scholarship Fund (1937).**

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. For a foreign student coming to Barnard to study. \$15,100.

## **Virginia C. Gildersleeve Scholarship Fund (1968).**

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. For a student majoring in the humanities, preference to be given to an English major. \$9,058.

## **Elizabeth Hughes Gossett Scholars (1981).**

By the Trustees out of funds left to the College by Elizabeth Hughes Gossett '29, added to by her family and friends. Awarded at the end of the freshman or sophomore year to one or more students selected by the Faculty Honors Committee, on the basis of academic achievement, demonstrated inclination toward public service, and leadership qualities. Continuation of the honor will be subject to annual review of each recipient's academic record. \$165,115.

## **Julius Held Scholarship Fund (1970).**

By gifts of alumnae and other friends. For a deserving student majoring in Art History. \$36,471.



# Scholarship Funds

## **Emma Hertzog Scholarship Fund (1904).**

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

## **Marion Alice Hoey Fund (1944).**

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference to be given to students studying Greek and Latin. \$2,000.

## **Hannah and Henry Hofheimer Scholarship Fund (1975).**

In honor of Hannah Hofheimer '09. By her family and friends in honor of her 90th birthday and 70th reunion at Barnard. Awarded annually to a Barnard freshman. \$70,952.

## **Holland Dames Scholarship Fund (1915).**

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

## **Lillia Babbitt Hyde Scholarship Fund (1953).**

By the Lillia Hyde Foundation. For premedical students. \$25,000.

## **Charlotte Louise Jackson Scholarship Fund (1928).**

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. For a graduate of a Yonkers High School selected or under the direction of the Board of Education of Yonkers. \$5,000.

## **Mary E. Larkin Joline Scholarship Fund (1927).**

By bequest of Mary E. Larkin Joline. For a student who is specializing in music. \$10,000.

## **Werner Josten Scholarship Fund (1955).**

With a gift from Mrs. Werner Josten. Preference to be given to a student majoring in music. If in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

## **Jessie Kaufmann Scholarship Fund (1902).**

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to offer financial assistance. It may be held for the entire college course. \$4,000.

## **Kimball Scholarship Fund (1938).**

By bequest of Lillian Emma Kimball. Awarded to a student from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

## **Eleanor Kinnicutt Scholarship Fund (1911).**

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing, it may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

## **Dr. Ann G. Kuttner Scholarship Fund (1969).**

By the Trustees out of funds left to the College by the life income contract and bequest of Dr. Ann G. Kuttner for financial aid, preferably to premedical students. \$217,008.

## **Bernard Liberman Scholarship Fund (1979).**

In memory of Bernard Liberman, by his brother Saul B. Liberman. Awarded annually to premedical students at Barnard College. \$22,865.

## **Carolina Marcial-Dorado Scholarship Fund (1953).**

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$17,193.

# Scholarship Funds

## **Raphael Marino Scholarship Fund (1977).**

In memory of Raphael Marino, by his sister Michele Steinbock. For a female student interested and proficient in the Italian language, Italian literature or art, or in Italian culture. \$5,000.

## **Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).**

By an anonymous donor. Preference to be given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

## **Fannie Moulton McLane Scholarship Fund (1961).**

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

## **Mrs. Donald McLean Scholarship Fund (1906).**

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout college. \$3,000.

## **Ferry Starr Morgan Scholarship Fund (1959).**

In memory of her father, by bequest of Grace B. Morgan '19. For a student who is majoring in music or philosophy. \$10,000.

## **Lawrence Morris Scholarship Fund (1968).**

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Preference to be given to a nominee of the New York City Mission Society. \$13,590.

## **Ruth Day Moser Scholarship Fund (1983).**

In honor of Ruth Day Moser '36. Preferably to Seniors majoring in sociology. \$27,038.

## **Lucy Moses Scholarship Fund (1975).**

With a gift from Lucy Moses. Awarded to a premedical Barnard student. \$10,000.

## **Julia Fisher Papper Scholarship Fund (1974).**

In memory of Julia Fisher Papper '37, by her husband Dr. Emanuel Papper and friends. Awarded to a senior of superior academic standing who has demonstrated high motivation in work at the College. \$9,930.

## **Mary Barstow Pope Scholarship Fund (1913).**

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

## **Public Service Scholarship Fund (1934).**

By the Women's Organization for National Prohibition Reform. Awarded to Barnard students of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage students of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

## **Lucille Pulitzer Scholarship Fund (1899).**

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York, eight are for resident students. \$176,459.



# Scholarship Funds

## **Marie Reimer Scholarship Fund (1953).**

See Prizes, page 310.

## **Amelia Agostini de del Rio Scholarship Fund (1955).**

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

## **Lesley Jane Rosen Memorial Scholarship Fund (1975).**

In memory of Lesley Jane Rosen '71, by her mother Rita J. Rosen. For an outstanding Barnard student who shows leadership quality and whose subject of interest is urban studies and/or political science. \$5,310.

## **Dr. Harry Rosenstein Scholarship Fund (1967).**

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. For a premedical student. \$5,000.

## **Doris Schloss Rosenthal Scholarship Fund (1981).**

In honor of Doris Schloss Rosenthal '36, by the Warner Communications, Inc. Awarded annually to students majoring in courses in the Arts. \$30,000.

## **Joan Rosof Scholarship Fund (1964).**

In honor of Joan Rosof '61, by her father, Mr. Murray Rosof. For qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

## **Felix St. George Scholarship (1955).**

In memory of her father, Felix St. George, by bequest of Ida St. George. For an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

## **Dorothy K. Scheidell Scholarship Fund (1965).**

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates and friends. For a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,665.

## **Lillian Schoedler Scholarship Fund (1967).**

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

## **Margarete Schwabe Scholarship Fund (1974).**

In memory of Dr. Margarete Schwabe by gifts from her daughter, Dr. Monika M. Eisenbud. For a premedical Barnard student with outstanding ability and idealism. \$6,025.

## **Roslyn Schiff Silver Scholarship Fund (1982).**

With a gift from the Grodin Fund. Income to be awarded to junior and senior students majoring in biological sciences or in biomedical engineering in preparation for a career in medical research. \$20,000.

## **Clarice Ann Smith Scholarship Fund (1973).**

By bequest of Clarice Ann Smith '18. For students who in the judgment of the Trustees and Faculty give promise of excellence in the field of literature and composition. \$168,101.

## **Fred Curtis Smith Memorial Scholarship Fund (1955).**

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

# Scholarship Funds

## **Marion Wesley Smith Scholarship Fund (1978).**

By a bequest from Lillian W. Wild in memory of Marion Wesley Smith '29. Awarded to Barnard students majoring in Anthropology. \$21,296.

## **Hilda Staber Scholarship Fund (1967).**

By bequest of Hilda Staber '05. For foreign students of character and ability. \$25,000.

## **Estella Raphael Steiner Scholarship Fund (1972).**

With gifts from Mrs. G. Gustav Steiner '23. For a senior of exceptionally high scholastic standing in Biological Sciences who plans to engage in research in that field. \$10,583.

## **Beatrice L. Stern Memorial Scholarship Fund (1977).**

By bequest of Ruth E. Weill. For a junior or senior Barnard student majoring in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene. \$130,544.

## **Marion Levi Stern Scholarship Fund (1977).**

In memory of Marion Levi Stern '20, by her family. For one or two Barnard freshmen, sophomores, juniors, or seniors in need of financial aid, provided that, if possible and appropriate, the award be made to a student with an interest in the social sciences, such as history, economics, or political science and provided further that the award may be held for a period of up to four years so long as the recipient continues to maintain a good record in the opinion of Barnard's administration. \$79,170.

## **The Strauss Scholarship Fund (1981).**

By Simon David Strauss and Elaine Mandle Strauss '36. Awarded annually to handicapped students. \$34,986.

## **Emma A. Tillotson Scholarship Fund (1910).**

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

## **Clara Bittenwieser Unger Memorial Fund (1938).**

In memory of his daughter, Clara Bittenwieser Unger '13, by Joseph L. Bittenwieser. To assist through the senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

## **Helen Elizabeth Vosburgh Scholarship Fund (1934).**

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference to be given to a self-supporting student. \$5,000.

## **Gertie Emily Gorman Webb Scholarship Fund (1953).**

By Charles Webb. For a student nominated by the Department of History. \$4,990.

## **May Hessberg Weis Scholarship Fund (1981).**

By May Hessberg Weis '13. Awarded annually to students studying environmental ethics and conservation. \$5,000.

## **Esther Lensh Weisman Scholarship Fund (1979).**

In memory of Esther Lensh Weisman '24. By her husband Jacob Weisman. Awarded annually preferably for a student majoring in English. \$25,000.

## **Allison Wier Scholarship Fund (1977).**

By a bequest of Allison Wier '29. For a Barnard student or students who are residents of Westchester County. \$24,000.

## **Elsa P. Wunderlich Scholarship Fund (1978).**

By bequest of Elsa P. Wunderlich '12. Awarded to a German exchange student. \$3,000.

## **Alma Gluck Zimbalist Scholarship Fund (1940).**

By bequest of Alma Gluck Zimbalist. For a student who wishes to major in political science. \$10,000.



## Loan Funds

### Loan Funds

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as parts of students' financial aid awards.

- Associate Alumnae Student Loan Fund
- Barnard College Club of Cleveland Loan Fund
- Barnard College Loan Fund
- Ann Susan Becker Memorial Loan Fund
- Pauline Hirschfeld Loan Fund
- Gertrude C. Hitchcock Loan Fund
- Adelaide Le Ciercq Loan Fund
- Swope Loan Fund
- Tudor Foundation Student Loan Fund

The Morris Morgenstern Student Loan Fund provides temporary emergency assistance and is administered by the Office of Financial Aid.



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## XVII. Honors

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study.

### Fellowships<sup>1</sup>

#### **Associate Alumnae of Barnard College Graduate Fellowship (1963).**

Awarded annually to a graduate who shows exceptional promise in her chosen field of work. Income on \$50,000. Information and applications may be obtained in the Alumnae Office, 221 Milbank.

#### **Anne Davidson Fellowship Fund (1971).**

In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the faculty committee of the **Program on Environmental Conservation and Management** to a graduating senior who has demonstrated continuing interest in the study of conservation. The holder is to pursue a year's graduate study in conservation at Columbia University or any other university of approved standing. Income on \$26,218.

#### **George Welwood Murray Graduate Fellowship Fund (1930).**

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the faculty, shows most promise of distinction in her chosen line of work in the field of the **humanities** and/or the **social sciences**. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. Income on \$20,000.

#### **Josephine Paddock Fellowship Fund (1976).**

By a bequest from the estate of Ethel Louise Paddock. Awarded annually to a member of the graduating class of Barnard College who, in the opinion of the faculty, has shown the most promise of distinction in such field or graduate study in art as the faculty shall determine. The holder is to pursue her studies preferably abroad at a college or university of approved standing, but may at her election pursue such studies in the United States. Income on \$105,521.

#### **Grace Potter Rice Fellowship Fund (1935).**

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the faculty, shows the most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the **natural sciences or mathematics** at Columbia or any university or college of approved standing. Income on \$24,000.

<sup>1</sup>Figures indicate principal of funds as of January 1984.

# Honors

## **Alpha Zeta Club Graduate Scholarship Fund (1936).**

By the Alpha Zeta Club, Inc. Awarded at the discretion of the faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. Income on \$21,038.

## **William Mason Scholarship (1928).**

The William Mason Scholarship in **music** is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

## **General**

### **Estelle M. Allison Prize Fund (1937).**

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

### **Mary E. Allison Prize Fund (1937).**

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

### **Frank Gilbert Bryson Prize (1931).**

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years. Income on \$3,000.

### **The Columbia University Press Prize.**

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

### **Eleanor Thomas Elliott Prizes (1973).**

In honor of Eleanor Thomas Elliott '48, established by Mr. John Elliott, Jr. Awarded annually as two prizes, the first to be \$2,000 and the second \$1,500, to two students in the junior class, as chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity and good citizenship in the College, the balance of the income to be applied as a financial aid award to another deserving student or students. Income on \$25,500.

### **Katherine Reeve Girard Prize (1964).**

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of a major. Income on \$2,500.

### **Ann Barrow Hamilton Memorial Prize in Journalism (1978).**

In memory of Ann Barrow Hamilton '70, by her husband, family, and friends. Awarded annually to a graduating senior who is planning to pursue a career in the field of journalism and who is judged by the Honors Committee to show the most promise of success in that field based on scholarship, writing ability, and desire to succeed. Income on \$4,071.

### **The Margaret Holland Bowl (1974).**

In memory of Margaret Holland, Professor Emeritus, and Chairman of the Department of Physical Education from 1945 to 1964. Awarded annually for excellence in leadership and participation in the Recreation and Athletic Association.



**Margaret Meyer Graduate Scholarship Fund (1952).**

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. Income on \$3,000.

**Harry Salzman Internship Fund (1982)**

With a gift from Francine Salzman Temko '43. Awarded by the Career Services Officer, to enable a student to participate in an internship in the Washington, D.C. area. \$5,100.

**Marian Churchill White Prize Fund (1975).**

In memory of Marian Churchill White '29, permanent class president, alumnae president, alumnae trustee, and author of *A History of Barnard College* (1954), by her classmates and other friends. Primary intention: to honor the combination of scholarly promise and service to class and college exemplified by Marian Churchill as an undergraduate. A prize of \$500 awarded annually to an outstanding Barnard student in the sophomore class who has participated actively in student affairs, as selected by the Faculty Committee on Honors. The balance of the income to be designated as a grant to the same student if she qualifies for financial aid on the basis of need; if not, to an alternate of comparable merit who does so qualify. Income on \$71,502.

## Premedical

**Helen R. Downes Prize (1964).**

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,958.

**The Michael T. Glynne Memorial Prize (1971).**

By Linda A. Glynne '71. A prize of \$100 awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences as a non-science major.

**Ida and John Kauderer Prize Fund (1973).**

Awarded annually to a premedical Barnard student majoring in chemistry. Income on \$2,300.

## Art History

**Nancy Hoffman '66 Prize Fund (1983).**

By Mr. & Mrs. David Levitt, in honor of their daughter, Nancy Hoffman, on the occasion of the tenth anniversary of the Nancy Hoffman Gallery. Awarded to a student majoring in Art History or Program in the Arts who plans to enter museum or gallery work or art conservatorship. Income on \$2,500.

**Virginia B. Wright Art History Prize Fund (1969).**

Awarded annually to the most promising senior majoring in Art History. Income on \$1,540.

## Biological Sciences

**Edna Henry Bennett Memorial Fund (1927).**

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

**Herrman Botanical Prize Fund (1892).**

By Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

**The Herbert Maule Richards Fund (1933).**

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or graduate of Barnard College. Income on \$5,000.

# Honors

## **Donald and Nancy Ritchie Fund (1979).**

In honor of Professor and Mrs. Ritchie, established by Professor Florrie Holzwasser and augmented by friends. The income to be used by the faculty of the Department of Biological Sciences to aid students in biological study or research.

## **Von Wahl Prize (1915).**

In memory of Constance Von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to continue advanced work in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

## Chemistry

### **American Institute of Chemists, New York Chapter.**

Awarded annually to the outstanding student of chemistry who will continue the study of chemistry. A one-year subscription to "The Chemist," and a certificate of honor.

### **Helen R. Downes Prize (1964).**

See Premedical listing.

### **Ida and John Kauderer Prize (1973).**

See Premedical listing.

### **Marie Reimer Scholarship Fund (1953).**

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of the junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of the junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. Income on \$25,100.

## Economics

### **The American Statistical Association Prize, New York Area Chapter (1960).**

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association.

### **Beth Niemi Memorial Prize Fund (1981).**

In memory of Beth Tilghman Niemi, with gifts from her family and friends. Awarded annually to an outstanding senior majoring in economics. \$4,018.

### **Katharine E. Provost Memorial Prize Fund (1949).**

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

### **Sylvia Kopald Selekman Prize Fund (1960).**

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

## Education

### **Stephanie Kossoff Prize (1972).**

In memory of Stephanie Kossoff, by her family. A prize of \$100 awarded annually to the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.



## English

### **Saint Agatha Muriel Bowden Memorial Prize Fund (1971).**

By the Saint Agatha Alumnae Association in memory of its school principal from 1930 to 1940. Awarded for superior proficiency in the study of Chaucer and Medieval Literature. Income on \$1,600.

### **W. Cabell Greet Prize Fund (1974).**

By family and friends. Awarded to a student for excellence in English. Income on \$2,380.

### **The Elizabeth Janeway Prize for Prose Writing.**

A prize of \$1000 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. Manuscripts must be submitted to the Department of English by March 1. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

### **Amy Loveman Memorial Fund (1956).**

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Manuscripts must be submitted to the Department of English by March 1. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. Income on \$20,100.

### **Lenore Marshall Barnard Prizes (1975).**

In memory of Lenore Marshall, by The New Hope Foundation. For authors of the best prose and the best poetry published in a literary magazine of the college. Prose judged by the English Department with the aid of such students as it may select. Poetry judged by three outside readers chosen by the Department. Manuscripts must be submitted to the Department of English by March 1. Income on \$5,000.

### **Sidney Miner Poetry Prize Fund (1962).**

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry. Income on \$5,000.

### **The Helen Prince Memorial Prize Fund (1921).**

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded by the Department of English to an undergraduate student for excellence in dramatic composition. Manuscripts must be submitted to the Department of English by February 1. Income on \$1,200.

### **Stains-Berle Memorial Prize Fund in Anglo-Saxon (1968).**

In memory of her grandmothers, Caroline Foy Stains and Katherina Mohrherr Berle, and in honor of Professor W. Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$2,000.

### **The Academy of American Poets Prize. (Columbia University)**

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

# Honors

## **The Bunner Medal. (Columbia University)**

The H.C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult the Departmental Representative for English and Comparative Literature of Columbia University.

## **Van Rensselaer Prize. (Columbia University)**

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

## **George Edward Woodberry Prize. (Columbia University)**

By the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Value of prize about \$100. For additional details consult the Department of English and Comparative Literature.

## **Environmental Conservation and Management**

### **Henry Sharp Prize Fund (1970).**

In memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and friends. Awarded annually to an outstanding student majoring in the Program on Environmental Conservation and Management. Income on \$3,080.

## **French**

### **Helen Marie Carlson French Prize Fund (1965).**

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (BC 1204), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. Income on \$3,016.

### **Isabelle de Wyzewa Prize Fund (1972).**

In memory of Isabelle de Wyzewa by her family and friends. Awarded to the student who writes the best composition in the French course, *Masterpieces of Literature from the Middle Ages to the Twentieth Century*, which Professor de Wyzewa directed for many years. Income on \$1,000.

### **Frederic C. Hoffherr French Prize (1961).**

In memory of Frederic C. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in intermediate French (BC 1203) for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

### **Linda Joan Israel Prize in French (1977).**

In memory of Linda Joan Israel '65. By her parents, Mr. and Mrs. Justinian Israel. Awarded annually to a senior French major for work done in the course *Advanced Oral French*, or, as an alternative, in the course *Advanced Translation into French*. In the absence of both of the above courses, the prize will be given for work in an advanced French poetry course. Award of \$50.



## **Eleanor Keller Prizes (1968).**

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. Income on \$43,517.

## **Rosemary Thomas Prize Fund in French (1966).**

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department. Awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in the study of French poetic literature. Income on \$10,050.

## **Geography**

### **Lillian Berle Dare Prize Fund (1974).**

Awarded annually to the most proficient Barnard senior majoring in geography who will continue to study in a related field. Income on \$1,000.

## **German**

### **Dean Prize in German (1952).**

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout college done the best work in German language and literature. Income on \$1,000.

### **German Scholarship Fund (1950).**

Awarded at the end of the junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. Income on \$41,000.

## **Greek and Latin**

### **Earle Prize in Classics. (Columbia University)**

A prize of \$150, in memory of Mortimer Lamson Earle, Instructor in Greek at Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905. Awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

### **Jean Willard Tatlock Memorial Prize Fund (1917).**

In memory of Jean Willard Tatlock '95 by her friends. Awarded to the undergraduate student most proficient in Latin. Income on \$1,250.

## **History**

### **Eugene H. Byrne History Prize Fund (1960).**

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

# Honors

## **The Jenny A. Gerard Medal (1908).**

By the Society of the Colonial Dames of America in memory of Mrs. James Gerard, late President of the Society. Awarded annually to the student who is most proficient in Colonial history.

## **Ellen Davis Goldwater History Prize (1982)**

In memory of Ellen Davis Goldwater '41 by her family and friends. Awarded for superior work to an undergraduate majoring in history. \$6,562.

## **Italian**

### **Bettina Buonocore Salvo Prize Fund (1966).**

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

### **Speranza Italian Prize Fund (1911).**

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. Income on \$1,000.

## **Mathematics**

### **Margaret Kenney Jensen Prize Fund (1973).**

In memory of Margaret Kenney Jensen '09, by Miss Evelyn H. McCaskie. Awarded annually, preferably to a freshman, sophomore, or junior for excellence in mathematics. Income on \$5,000.

### **Kohn Mathematical Prize (1892).**

By Mrs. S.H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during the college course. Income on \$1,000.

## **Music**

### **Robert Emmett Dolan Prize. (Columbia University)**

A cash prize awarded annually by the Department of Music to help a student in any division of the University in paying for instruction on a chosen musical instrument. The award was established by an anonymous donor in memory of Robert Emmett Dolan.

## **Oriental Studies**

### **Taraknath Das Foundation Prize in Oriental Studies. (Columbia University)**

A prize of \$50 awarded annually to a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

## **Philosophy**

### **The William Pepperell Montague Prize Fund (1949).**

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

## **Physics**

### **Henry A. Boorse Prize Fund (1974).**

By alumnae and friends of Dean Boorse on his retirement. Awarded annually to the most promising Barnard sophomore in Physics. Income on \$6,702.



## Political Science

### **Phoebe Morrison Memorial Prize Fund (1969).**

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,595.

### **James Gordon Bennett Prize. (Columbia University)**

A prize of \$175 established through a gift from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

### **The Caroline Phelps Stokes Prize. (Columbia University)**

The Caroline Phelps Stokes Prize of \$100 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult the Departmental Representative for Political Science.

## Psychology

### **The American Statistical Association Prize, New York Area Chapter (1960).**

See Economics listing.

### **Ida Markewich Lawrence '78 Prize Fund (1982).**

Established by the Bela and Catherine Schick Foundation in keeping with the lifelong attentiveness of Dr. and Mrs. Schick to the medical and psychological problems of young children, for the best paper in psychology, preferably child psychology, by a Barnard undergraduate in that field. Income on \$2,500.

## Religion

### **Samuel Dornfield Prize Fund (1979).**

In memory of Samuel Dornfield, by his niece Helene Farber de Aguilar '66. Awarded annually at the discretion of the Religion Department, to a Barnard student whose work in Old Testament or Ancient Near Eastern Studies reflects special sensitivity and academic excellence. Award of \$100.

### **Caroline Gallup Reed Prize Fund (1916).**

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

## Russian

### **Alice Levin Sokolik Prize in Russian (1976).**

In memory of Alice Levin Sokolik '65. Awarded annually at commencement to the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature. Award of \$50.

# Honors

## Spanish

### **The John Bornemann Prize in Spanish (1976).**

In memory of John Bornemann by his wife. A book or books awarded annually to a student or students for superior performance in the first or second year language courses.

### **Spanish Prize (1959).**

Awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. Income on \$2,500.

### **Susan Huntington Vernon Prize. (Seven Colleges)**

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.

## Urban Studies

### **Suzanne Farkas Urban Affairs Prize (1972).**

By Mr. Robin Farkas. A prize of \$500 awarded annually for the best essay in Urban Affairs.

## Women's Studies

### **Bessie Ehrlich Memorial Prize Fund (1980).**

In memory of Bessie Ehrlich by her granddaughter Sue Libow '81. Awarded annually to a student who completes an oral history project of her grandmother or of another female relative of a preceding generation, in conjunction with the Women's Studies Program. Income on \$2,500.

### **Jane S. Gould Prize Fund (1982).**

A prize to a Women's Studies major who writes an outstanding senior essay which furthers understanding of a contemporary social or political issue. Income on \$4,000.



		1889	1899	1909	1919	1924	1929	1934	1939	1944	1949	1954	1959	1964	1969	1974	1979	1980	1981	1982	1983
		to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
		1890	1900	1910	1920	1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1981	1982	1983	
Undergraduates, Regular																					
Seniors	.....	40	62	87	126	227	181	164	208	260	245	325	355	433	572	595	645	621	722	654	
Juniors	.....	40	122	190	259	237	220	191	314	277	340	356	414	480	554	601	585	730	645	506	
Sophomores	.....	37	109	193	234	247	226	210	314	272	317	352	391	517	488	560	699	608	496	544	
Freshmen	.....	14	54	188	224	271	311	267	246	324	271	304	385	415	485	437	636	543	487	507	
Unclassified students	.....				57	54	103	143	56	17	1	9	8	21	.....	.....	4	.....	.....	509	
		14	171	481	694	947	1076	997	954	1216	1097	1207	1427	1583	1936	2051	2392	2476	2446	2370	2213
Special Students																					
Matriculated	.....	21	24	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Nonmatriculated	.....		30	22	33	28	29	31	21	15	20	28	19	22	33	49	48	38	46	27	
Departmental (1889-1896)	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Music Students (1896-1905, 1914-1915)		41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
		22	62	54	61	33	28	29	31	21	15	20	28	19	22	33	49	48	38	46	27
Graduate Students (1890-1900)		82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Total Registration		36	315	535	755	980	1104	1026	985	1237	1112	1227	1455	1602	1958	2084	2441	2524	2484	2416	2240
Degrees Conferred																					
A.B. (1909-1918)	.....	39	88	139	198	247	221	206	270	303	258	347	367	437	497	526	533	567	602	705	
B.S. (1909-1918)	.....	2	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
A.M. (1898-1900)	.....	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Ph.D. (1899-1900)	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

Total Bachelor's Degrees conferred 1893-1984, A.B. 22,470, B.S. 77.  
These figures represent registration in the Autumn Term.





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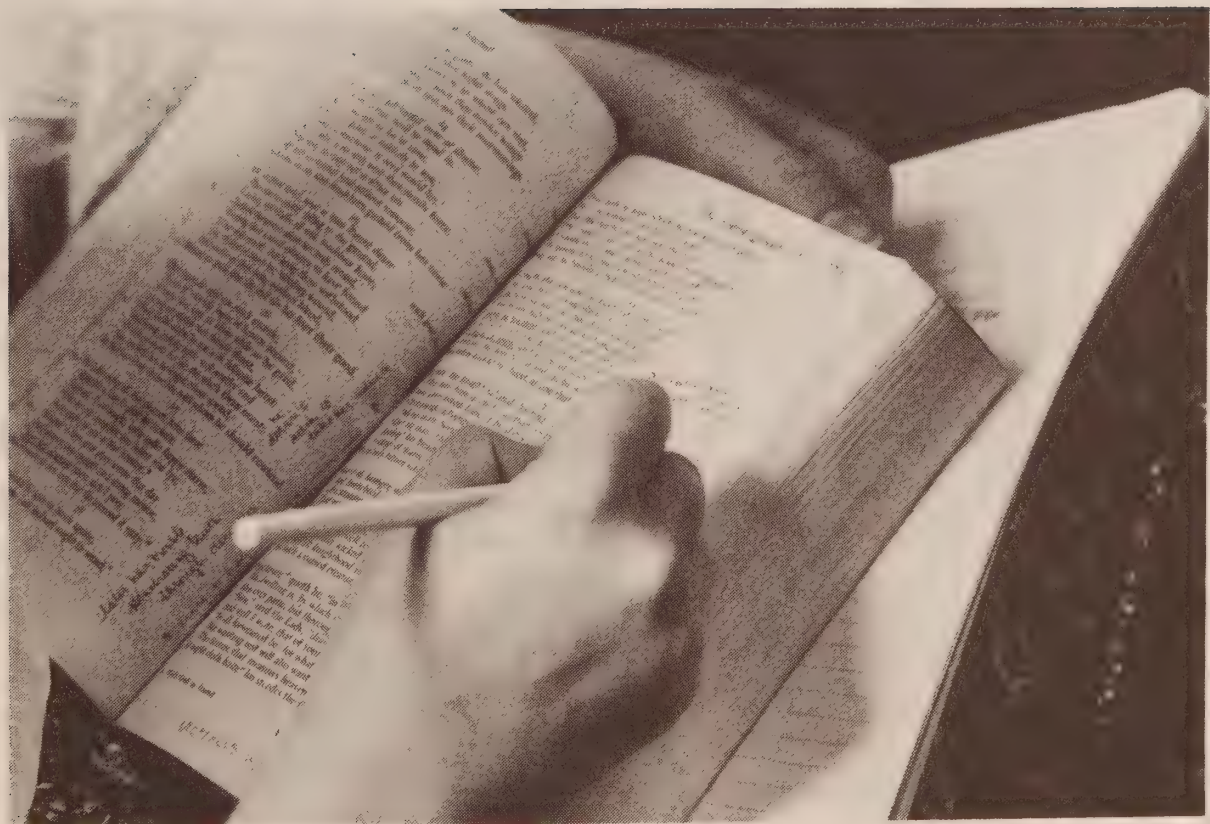
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Henry Hudson Parkway

Tennis Courts

Riverside Park

Riverside Drive

International House

Riverside Church

Interchurch Center

West 119th Street

Manhattan School of Music

Hastings

Claremont Avenue

Barnard College

West 116th Street IRT #1

West 115th Street

River

McVickar

Bark Street College of Education

Pupin

Marcus Hartley Dodge Physical Fitness Center

Chambers

Havemeyer

Madison

Earl

Lewis

Visitor's Center Dodge

Journalism

Bell

Wollman Auditorium

Ferris Booth

Carman

Hogan

Robert Watson

McBain

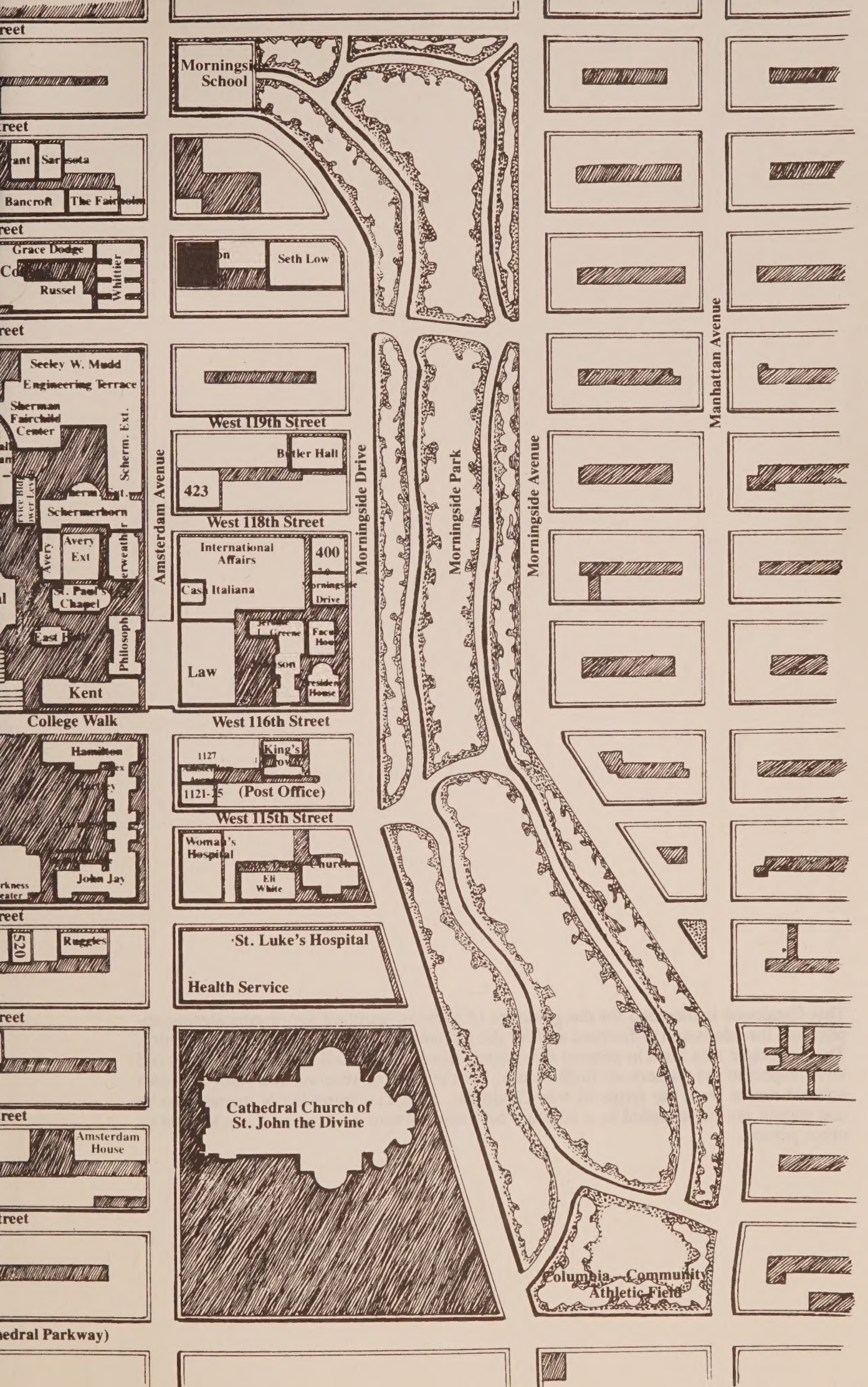
Armstrong

Burgess

West 110th Street

Harmony





Morningside School

Seth Low

West 119th Street

Butler Hall

423

West 118th Street

International Affairs

400

Cas. Italiana

Law

Green

son

Face House

Residence House

West 116th Street

1127

King's

1121-25 (Post Office)

West 115th Street

Woman's Hospital

EH White

Church

St. Luke's Hospital

Health Service

Cathedral Church of St. John the Divine

Columbia Community Athletic Field



This Catalogue is intended for the guidance of persons applying for or considering application for admission to Barnard and for the guidance of Barnard students and faculty. The Catalogue sets forth in general the manner in which the College intends to proceed with respect to the matters set forth herein, but the College reserves the right to depart without notice from the terms of this Catalogue. This Catalogue is not intended to be and should not be regarded as a contract between Barnard College and any student or other person.





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